



ENISA – CERT Inventory

Inventory of CERT teams and activities in Europe

VERSION 2.17

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About ENISA

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Table of Contents

Executive Summary	6
1. Terms and definitions	7
2. Overview of countries covered	9
3. Overview of CERTs by country and/or region	10
3.1 International CERT teams	10
3.2 European Institutions	11
3.3 Albania	11
3.4 Armenia	12
3.5 Austria	12
3.6 Azerbaijan	13
3.7 Belgium	13
3.8 Bulgaria	13
3.9 Croatia	13
3.10 Cyprus	14
3.11 Czech Republic	14
3.12 Denmark	15
3.13 Estonia	16
3.14 Finland	16
3.15 France	16
3.16 Georgia	18
3.17 Germany	18
3.18 Greece	20
3.19 Hungary	20
3.20 Iceland	21
3.21 Ireland	21
3.22 Israel	21
3.23 Italy	22
3.24 Latvia	22

3.25 Lithuania	23
3.26 Luxembourg	23
3.27 Malta	24
3.28 Moldova	24
3.29 Montenegro	25
3.30 Netherlands (The)	25
3.31 Norway	26
3.32 Poland	26
3.33 Portugal	28
3.34 Romania	28
3.35 Russian Federation	29
3.36 Serbia	29
3.37 Slovakia	29
3.38 Slovenia	29
3.39 Spain 30	
3.40 Sweden	31
3.41 Switzerland	31
3.42 Turkey	32
3.43 Ukraine	32
3.44 United Kingdom	33
4. CERT co-operation activities and projects in Europe	35
4.1 CERT-Verbund (Germany)	35
4.2 Austrian Trust Circle	35
4.3 Dutch national cooperation (o-IRT-o)	35
4.4 EGC – European Government CERTs Group	36
4.5 NordUNET	36
4.6 TF-CSIRT - Task Force of Computer Security and Incident Response Teams	37
TF-CSIRT activities	37
4.6.1	37
4.7 TI - Trusted Introducer	38
4.7.1 Short History	38

4.8	ENISA – Annual CERTs workshops	39
4.9	EU FI-ISAC	39
5.	CERT supporting activities and projects	40
5.1	CERT-in-a-box/Alerting-Service-in-a-box	40
5.2	CSIRT mentoring scheme	40
5.3	CSIRT Starter Kit	41
5.4	Handbook of legislative Procedures for CSIRTs	41
5.5	RTIR - Request Tracker for Incident Response WG	41
5.6	TRANSITS - Training of Network Security Incident Teams Staff	42
5.7	The WARP initiative - Warning, Advice and Reporting Points	42
5.7.1	The WARP Toolbox	43
5.8	ENISA exercise material for CERTs	43
6.	CERT standardisation activities	44
6.1	CAIF - Common Advisory Interchange Format	44
6.2	DAF - Deutsches Advisory Format/German Advisory Scheme	44
6.3	EISPP - European Information Security Promotion Program	44
6.4	STIX - Structured Threat Information eXpression	45
6.5	TAXII - Trusted Automated eXchange of Indicator Information	45
6.6	IODEF - Incident Object Description and Exchange Format	45
6.7	VEDEF - Vulnerability and Exploit Description and Exchange Format SecDEF - Security Description and Exchange Format	46
6.8	ENISA baseline capabilities of national/governmental CERTs	46
7.	Updates	48
Annex A: Main international CERT initiatives outside of Europe		49
A.1	AP-CERT - Asia Pacific Computer Emergency Response Team	49
A.1.1	Membership	49
A.2	FIRST - Forum of Incident Response and Security Teams	49
A.2.1	Vision	49
A.2.2	Mission Statement	49
A.2.3	Organisation	50
A.2.4	History	50
8.	Annex B: Version History	52

Executive Summary

This document aims to provide an overview on the actual situation concerning CERT teams across Europe. It provides a list of incident response teams and similar facilities by country and sector (type of constituency) but also contains a catalogue of co-operation, support- and standardisation activities & initiatives related to the CERT community.

This document implements one of the deliverables as laid down in the ENISA Work Programme 2013 WS3, “an updated CERT Inventory document” which covers update of activities, initiatives and status of CERT teams in Europe.

The report at hand gives a profile of the situation concerning CERTs and their activities in Europe. It shows which facts ENISA has to take into account in the following years of its work in order not to “re-invent the wheel” but to really add value, for example by facilitating events like TRANSITS courses, to join EGC-, TF-CSIRT- and other meetings, to discuss with established and new CERT-people and many more things like this.

Since the first version of the document in 2005, it was constantly updated in order to reflect the latest changes/updates in the CERT landscape. To remain useful in the future, it has to be regularly updated: obsolete information will have to be deleted, information about new teams and activities will have to be validated and added. This document lives from your feedback! So please report mistakes, changes and new information: cert-relations@enisa.europa.eu .

1. Terms and definitions

CERT - Computer Emergency Response Team - A “CERT” is an organisation that studies computer and network security in order to provide incident response services to victims of attacks, publish alerts concerning vulnerabilities and threats, and to offer other information to help improve computer and network security. (See also: CSIRT). Throughout this document, the well-established term CERT will be used.

N/G CERT teams – The informal definitions for “national CERT” and for “governmental CERT” do not uniquely reflect the status, role and responsibility of all the CERT teams ENISA tries to address. In the context of this document and ENISAs work in the area of baseline capabilities the term “national / governmental CERT” is introduced. Still vague, this term depicts the following kind of CERT:

- acting as official national point of contact for national / governmental CERTs in other Member States
- bearing responsibilities for the protection of critical information infrastructure (CIIP) in its country

The term “national / governmental CERT” therefore subsumes all “flavours” of national CERTs, governmental CERTs, national points of contacts and others in the EU Member States.

CSIRT - Computer Security and Incident Response Team - Over time, the CERTs (see above) extended their services from being a mere reaction force to a more complete security service provider, including preventive services like alerting or advisories and security management services. Therefore, the term “CERT” was not considered to be sufficient. As a result, the new term “CSIRT” was established in the end of the 90-ies. At the moment, both terms (CERT and CSIRT) are used in a synonymous manner, with CSIRT being the more precise term. Throughout this document, the well-established term CERT will be used.

Abuse Team - An Abuse team is a response facility, usually operated by an ISP, who professionally handles "Internet-abuse" reports or complaints (e.g. spam, viruses, offensive mails, etc.), with a team of people, on a relatively large scale.

FIRST – Global Forum for Incident Response Teams

IETF - The Internet Engineering Task Force - The Internet Engineering Task Force is a large open international community of network designers, operators, vendors, and researchers concerned with the evolution of the Internet architecture and the smooth operation of the Internet. It is open to any interested individual. See IETF website.

IODEF - Incident Object Description and Exchange Format. See IODEF.

TF-CSIRT - Task Force CSIRT. See *TF-CSIRT - Task Force of Computer Security and Incident Response Teams* p. 37.

TI - Trusted Introducer service. See *TI - Trusted Introducer* p. 38.

TI Status: Listed - The initial stage of the TI process is being "listed" in the public TI database. In fact this means that a CSIRT is "known" to the rest of the world and accepted as being a CSIRT.

TI Status: Accreditation Candidate - From the moment that the team has received an "Accreditation Candidate" acknowledgement from the TI, the CSIRT team is publicly considered "Accreditation Candidate". The one and only goal of "Accreditation Candidate" status is to move to "Accredited".

TI Status: Accredited - From the moment that the team has properly documented that it meets the "Accredited" criteria – by means of correctly filled out Appendices B and D - and has received an "Accredited" acknowledgement from the TI, the CSIRT team is publicly considered "Accredited".

TI Status: Accredited and Certified - Certification is the next step in the TI CSIRT maturity model. TI Certification is meant for those "Accredited" teams who have internal and/or external reasons to have their maturity level gauged in an independent way. See TI certification web-page for more information.

WARP - Warning, Advice and Reporting Points. See WARPs.

2. Overview of countries covered

The purpose of the current document is to provide a general overview of the CERTs and of their activities. The main focus is on European CERTs, however other countries such as members of the European Free Trade Association and other neighbours are covered as well.

The main source of information for this document is Trusted-Introducer¹. Other sources like FIRST, TF-CSIRT are also taken into account even though their scope is much larger.

A bi-annual update for the inventory is done based on latest CERT team updates found on Trusted-Introducer website.

For more detailed information, we refer to the information published on ENISA web site.

A total of 42 countries were included in the scope of the CERT inventory:

Albania	Germany	Norway
Armenia	Greece	Poland
Austria	Hungary	Portugal
Azerbaijan	Iceland	Romania
Belgium	Ireland	Russian Federation
Bulgaria	Israel	Serbia
Croatia	Italy	Slovakia
Cyprus	Latvia	Slovenia
Czech Republic	Lithuania	Spain
Denmark	Luxembourg	Sweden
Estonia	Malta	Switzerland
Finland	Moldova	Turkey
France	Montenegro	Ukraine
Georgia	Netherlands (The)	United Kingdom

¹ <http://trusted-introducer.org/>

3. Overview of CERTs by country and/or region

This section presents an overview of the identified CERT teams on a per-country/region basis. For each CERT, the information provided consists in its name, date of establishment, memberships towards international organisations (i.e. Trusted Introducer and FIRST), type of constituency and, where relevant, additional details (e.g. additional description, website URL, etc.).

3.1 International CERT teams

This section includes an inventory of the international CERTs:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS ²	FIRST MEMBERSHIP ³	CONSTITUENCY	ADDITIONAL INFORMATION
1.	Cisco CSIRT (worldwide)	Q1 199	Accredite	Membe	Commercial Organisatio	See: http://tools.cisco.com/security/center/emergency.x?i=56
2.	Cisco PSIRT	1995	Listed	Member	Vendor Customer Base	See: http://www.cisco.com/go/psirt
3.	Civil Society CERT	Q1 2014	Listed	Not member	Non-Commercial Organisation	
4.	EGI CSIRT	Q1 2010	Certified	Not member	Research and Education	The European Grid Infrastructure (EGI) CSIRT provides an operational response to security threats against the EGI infrastructure. See: https://wiki.egi.eu/wiki/CSIRT
5.	ESACERT	2003	Accredited	Member	Research and Education	See: www.esacert.esa.int
6.	IBM ERS		Listed	Member	Service Provider Customer Base	See: www.ers.ibm.com
7.	ICANN CIRT	Q4 2009	Listed	Member	Non-Commercial Organisation	See: http://www.icann.org/en/cirt
8.	Interpol ISIRT	Q1 2009	Listed	Member	Non-Commercial Organisation	Interpol Information Security Incident Response Team. See: http://www.interpol.int Contact: isirt@interpol.int

² See: www.trusted-introducer.org

³ See: www.first.org

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS ²	FIRST MEMBERSHIP ³	CONSTITUENCY	ADDITIONAL INFORMATION
9.	ISPIRIT	Q1 2008	Listed	Member	Financial Sector	
10.	NCIRC CC		Listed	Member	Military	NATO Computer Incident Response Capability - Coordination Centre (located in Belgium). See: www.nato.int/cps/en/natolive/index.htm
11.	NORDUnet CERT	Q3 1990	Accredited	Member	Research and Education	Cooperation initiative between Nordic national research networks. See: http://cert.nordu.net
12.	Panasonic PSIRT	Q2 2010	Accredited	Member	Vendor Customer Base	See: http://panasonic.co.jp/info/psirt/en/
13.	RIPE NCC CSIRT	Q4 2103	Listed	Not Member	Non-Commercial Organisation	
14.	Shell SecOps	Q1 2004	Not Listed	Member	Commercial Organisation	Contact: cert@shell.com
15.	Team Cymru	Q1 1998	Accredited	Member	Commercial Organisation	See: http://www.team-cymru.org

3.2 European Institutions

This section includes the details of the CERT for European Institutions:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
16.	AiG CERT	Q2 2013	Accredited	Not member	Commercial Organisation	cert@airbus.com
17.	CERT-EU	Q2 2011	Accredited	Not member	National /Governmental	See: www.cert.europa.eu
18.	GSC Network Defence Capability	Q2 2009	Not listed	Not member	National /Governmental	Primary constituency: General Secretariat of the Council of the EU

3.3 Albania

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
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19.	ALCIRT	Q3 2011	Listed	Not member	Governmental	Contact: contact@cirt.gov.al
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3.4 Armenia

This section includes the details of the CERTs for this country

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
20.	CERT AM		Listed	Not member	National / Governmental	See: www.cert.am

3.5 Austria

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
21.	ACOnet-CERT	Q1 2003	Accredited	Member	Research and Education	See: http://cert.aco.net
22.	CERT.AT	Q1 2008	Accredited	Member	National	See: www.cert.at
23.	GovCERT	Q2 2008	Listed	Not Member	Governmental	See: www.govcert.gv.at
24.	R-IT CERT	Q1 2008	Listed	Member	Financial Sector	See: www.r-it.at
25.	WienCERT	Q3 2011	Listed	Not Member	Governmental	City of Vienna – Contact: cert@wien.gv.at

3.6 Azerbaijan

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
26.	AZ-CERT	Q1 2011	Accredited	Not member	National, Research and Education	See: www.cert.az
27.	CERT.GOV.AZ	Q1 2008	Accredited	Not member	Military, Governmental	See: www.cert.gov.az
28.	CERT AzEduNET		Listed	Not member	Research and Education	
29.	CSC Az		Listed	Not member	Governmental	See: http://www.cert.az/

3.7 Belgium

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
30.	CERT.BE	Q3 2004	Accredited	Member	National / Governmental	CERT.BE merged with previous BELNET CERT in Q3 2011. See: www.cert.be
31.	GSC-NDC-OC	Q2 2009	Listed	Not Member	Government. - Military	
32.	PXS-CSIRT	Q1 2011	Accredited	Member	Commercial Organisation	See: csirt@proximus.com

3.8 Bulgaria

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
33.	CERT Bulgaria	Q4 2008	Accredited	Not member	National / Governmental	See: https://govcert.bg

3.9 Croatia

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
34.	CERT ZSIS	Q3 2007	Accredited	Member	Governmental	See: www.zsis.hr
35.	HR-CERT	Q2 2009	Accredited	Member	National	See: www.cert.hr

3.10 Cyprus

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
36.	CYPRUS Research and Academic		Listed	Not member	Research and Education	

3.11 Czech Republic

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
37.	2CCSIRT	Q2 2014	Listed	Not member	ISP Customer Base	
38.	ACTIVE24-CSIRT		Listed	Not member	Service Provider Customer Base	See: www.active24.cz/csirt
39.	ALEF-CSIRT	Q4 2014	Listed	Not member	Commercial Organisation	abuse@alef.com
40.	CASABLANCA.CZ-CSIRT		Listed	Not member	ISP Customer Base	See: http://csirt.casablanca.cz/
41.	CDT-CERT	Q2 2014	Listed	Not member	ISP Customer Base	
42.	CESNET-CERTS	Q1 2004	Accredited	Not member	Research and Education	See: www.cesnet.cz/csirt
43.	CSIRT Merit	Q1 2015	Listed	Not member	ISP Customer Base	abuse@merit.cz
44.	Coolhousing CSIRT	Q3 2014	Listed	Not member	Service Provider Customer Base	
45.	CSIRT.CZ	Q2 2008	Accredited	Not member	National CERT	See: www.csirt.cz

46.	CSIRT-MU	Q2 2009	Accredited	Not member	Research and Education	See: www.muni.cz/csirt
47.	CSIRT-VUT	Q1 2009	Listed	Not member	Research and Education	See: http://csirt.vutbr.cz/
48.	CSOB-Group-CSIRT	Q1 2011	Listed	Not member	Financial Sector	
49.	CZ.NIC-CSIRT	Q2 2008	Accredited	Not member	Non Commercial Organisation	Formerly CZNIC-CSIRT. See: www.nic.cz/csirt
50.	GOVCERT.CZ	Q3 2012	Accredited	Not member	Governmental	See: www.govcert.cz
51.	KAORA-CSIRT	Q4 2014	Listed	Not member	ISP Customer Base	csirt@kaora.cz
52.	O2.cz CERT	Q4 2013	Listed	Not member	ISP Customer Base	abuse@O2.cz
53.	SEBET	Q3 2014	Listed	Not member	ISP Customer Base	csirt@itself.cz
54.	SEZNAM.CZ-CSIRT	Q3 2013	Listed	Not member	ISP Customer Base	See: http://napoveda.seznam.cz/csirt/
55.	ISPA CSIRT	1/1/2015	Listed	Not member	ISP Customer Base	csirt@ispalliance.cz
56.	FORPSI-CSIRT	1/3/2015	Listed	Not member	ISP Customer Base	csirt@forpsi.com
57.	WEB4U-CSIRT	1/6/2015	Listed	Not member	ISP Customer Base	csirt@web4u.cz

3.12 Denmark

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
58.	Danish GovCERT	Q2 2009	Accredited	Member	National / Governmental	See: www.govcert.dk
59.	CSIRT.DK	Q4 1999	Listed	Member	ISP Customer Base	See: www.csirt.dk
60.	DKCERT	Q3 1991	Accredited	Member	Research and Education	See: www.cert.dk
61.	KMD IAC	Q3 1997	Listed	Member	Service Provider Customer Base	See: www.kmd.dk
62.	SECUNIA RESEARCH	Q4 2002	Listed	Member	ICT Vendor Customer Base	
63.	SWAT		Not listed	Not member	Commercial Organisation	A.P. Moller-Maersk Group IT-Security SWAT

64.	CSIS.DK	Q1 2003	Not listed	Not member	Commercial Organisation	See: www.csis.dk
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3.13 Estonia

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
65.	CERT-EE	Q1 2006	Accredited	Member	National / Governmental	See: www.cert.ee
66.	EDF CIRC	Q1 2009	Listed	Not member	Military	

3.14 Finland

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
67.	NCSC-FI	Q1 2002	Accredited and Certified	Member	National / Governmental	See: www.cert.fi
68.	Ericsson PSIRT	Q1 2004	Accredited	Member	ICT Vendor Customer Base	Contact: psirt@ericsson.com
69.	F-Secure Security Response		Listed	Not member	Commercial Organisation	See: www.f-secure.com
70.	FUNET CERT	Q3 1995	Accredited	Member	Research and Education	See: www.cert.funet.fi
71.	Nokia NIRT	Q3 1998	Listed	Member	ICT Vendor Customer Base	Also located in the UK, USA, China, Denmark, Singapore and Australia.

3.15 France

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
72.	AlliaCERT	Q1 2012	Listed	Not member	Service Provider Customer Base	See: cert@alliacom.com
73.	CERT SEKOIA	Q2 2015	Listed	Not member	Commercial Organisation	See: cert@sekoia.fr
74.	CERT BDF	Q4 2012	Listed	Not member	Financial Sector	
75.	CERT-BULL	Q3 2013	Listed	Not member	Commercial Organisation	
76.	CERT Credit Agricole		Listed	Not member	Financial Sector	See: cert@credit-agricole.com
77.	CERT-FR	Q4 1999	Accredited	Member	National / Governmental	See: www.cert.ssi.gouv.fr
78.	CERT-DVT	Q3 2007	Accredited	Not member	Service Provider Customer Base	Formerly APOGEE SecWatch. See: www.cert-devoteam.com
79.	Cert-IST	Q1 1999	Accredited	Member	Service Provider Customer Base	See: www.cert-ist.com
80.	CERT-LEXSI	Q2 2003	Accredited	Member	Service Provider Customer Base	See: http://cert.lexsi.com
81.	CERT-Renater	Q1 1993	Accredited	Member	Research and Education	See: www.renater.fr
82.	CERT-Société Générale		Listed	Member	Financial Sector	See: http://cert.societegenerale.com
83.	CERT-XMCO		Listed	Not member	Service Provider Customer Base	See: www.xmcopartners.com
84.	CSIRT BNP Paribas		Listed	Not member	Financial Sector	
85.	CERT LA POSTE		Listed	Not member	Financial Sector	

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
86.	CERT-SLC	Q1 2011	Accredited	Not Member	Service Provider Customer Base	See: http://www.solucom.fr/index.php/Nos-savoir-faire/Risk-management-securete-de-l-information/CERT-Solucom
87.	Orange-CERT-CC		Listed	Member	Commercial Organisation	
88.	CERT-UBIK		Listed	Not member	Commercial Organisation. - Service Provider Customer Base	team@cert-ubik.com
89.	CERT OSIRIS	1/1/2012	Listed	Not member	Research & Education	cert-osiris@unistra.fr

3.16 Georgia

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
90.	CERT-GOV-GE		Accredited	Not member	National / Governmental	See: www.dea.gov.ge
91.	CERT-GE	Q1 2007	Listed	Not member	Research and Education	See: www.cert.ge

3.17 Germany

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
92.	AiG CERT	Q2 2013	Accredited	Member	Commercial Organisation	See: http://www.cybersecurity-airbusds.com
93.	BfK		Not listed	Member	Commercial Organisation	See: www.bfk.de
94.	BASF gCERT	Q1 2010	Listed	Member	Commercial Organisation	Contact: cert@basf.com
95.	CERT BWI	Q1 2008	Certified	Member	ICT Vendor Customer Base	See: www.bwi-systeme.de

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
96.	CERT-BUND	Q1 2001	Accredited	Member	National /Governmental	See: www.cert-bund.de
97.	CERT-rlp		Not listed	Not Member	Governmental	See: www.cert-rlp.de
98.	CERTBw	Q2 2003	Listed	Member	Military, Governmental	
99.	CERT NRW	Q1 2005	Listed	Not Member	Government	
100.	CERT-VW	Q3 2002	Accredited	Member	Commercial Organisation	
101.	ComCERT	Q2 2002	Listed	Member	Financial Sector	See: www.commerzbank.com
102.	CSIRT-ECB	Q1 2012	Listed	Member	Financial Sector	CSIRT European Central Bank Contact: csirt@ecb.europa.eu
103.	dbCERT	Q4 2003	Not listed	Member	Financial Sector	See: www.db.com
104.	dCERT	Q1 1999	Accredited	Member	Service Provider Customer Base	See: www.dcert.de
105.	DFN-CERT	Q1 1993	Certified	Member	Research and Education	See: www.dfn-cert.de
106.	Evonik CERT	Q3 2012	Listed	Not member	Commercial Organisation	See: http://www.evonik.com/
107.	FTS-CERT		Not listed	Member	Vendor Customer Base	Provides services to the customers of Fujitsu Technology Solutions.
108.	KIT-CERT	Q1 2008	Accredited	Member	Research and Education	See: www.kit.edu/cert
109.	PRE-CERT	Q1 2001	Accredited	Member	Service Provider Customer Base	See: www.pre-secure.de
110.	RUS-CERT	Q1 1998	Accredited	Member	Research and Education	See: http://cert.uni-stuttgart.de
111.	SAP CERT	Q1 2002	Listed	Member	ICT Vendor Customer Base	
112.	S-CERT	Q1 2001	Accredited	Member	Financial Sector	See: www.s-cert.de
113.	SECU-CERT	Q3 2001	Listed	Member	Service Provider Customer Base	
114.	Siemens-CERT	Q2 1998	Accredited	Member	Industrial Sector	Also located in the USA. See: www.siemens.com/cert
115.	TK CERT	Q1 2012	Listed	Not member	Commercial Organisation	ThyssenKrup
116.	Vodafone-CERT	Q4 2009	Listed	Member	ISP Customer Base	

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
117.	XING	Q2 2011	Accredited	Not member	Commercial Organisation	See: https://corporate.xing.com/english/company/security-at-xing
118.	Bayern-CERT	01/04/2004	Listed	Not member	Government	mailto:cert@bayern.de
119.	E.ON CERT	01/02/2012	Accredited	Not member	Commercial Organisation	CERT@eon.com

3.18 Greece

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
120.	NCERT-GR		Listed	Not member	National / Governmental	See: www.cert.gov.gr
121.	AUTH-CERT	Q2 2004	Listed	Not member	Research and Education	See: www.auth.gr
122.	FORTHcert	Q3 2007	Certified	Member	Service Provider Customer Base	See: www.forth.gr/forthcert
123.	GRNET-CERT	Q2 2000	Accredited	Not member	Research and Education	See: http://cert.grnet.gr

3.19 Hungary

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
124.	CERT-Hungary	Q1 2005	Accredited	Member	National / Governmental	See: www.cert-hungary.hu
125.	HUN-CERT	Q4 2003	Listed	Not member	Major Service Provider	See: www.cert.hu
126.	NIIF CSIRT	Q4 2003	Listed	Not member	Research and Education	See: http://csirt.niif.hu

3.20 Iceland

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
127.	CERT.IS	Q4 2012			National / Governmental	See: http://www.cert.is
128.	RHnet CERT	Q4 2003	Listed	Not member	Research and Education	

3.21 Ireland

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
129.	CSIRT.IE		Not listed	Not member	National / Governmental	
130.	HEANET-CERT	Q4 2002	Listed	Not member	Research and Education	See: www.heanet.ie/cert.html
131.	IRISS CERT	Q4 2008	Accredited	Not member	Non Commercial Organisation	See: www.iriss.ie
132.	POPCAP-CSIRT		Listed	Not member	Vendor Customer Base	

3.22 Israel

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
133.	CERTGOVIL	Q2 2006	Listed	Member	National / Governmental	See: http://www.cert.gov.il

134.	IUCC-CERT		Not Listed	Member	National, Research and education	See: http://cert.iucc.ac.il/
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3.23 Italy

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
135.	CERT-Difesa		Not listed	Not member	Military	See: cert.difesa.it
136.	CERT Nazionale	Q3 2014	Not listed	Not member	National / Governmental	See: https://www.certnazionale.it
137.	CERT Pubblica Amministrazione	Q1 2014	Not listed	Not member	National / Governmental	
138.	PI-CERT	Q1 2013	Accreditation Candidate	Not member	Service Provider Customer Base	See: http://www.picert.it
139.	CERT-RAFVG		Not listed	Not member	Local agencies for the Friuli region	See: http://cert-rafvg.regione.fvg.it
140.	GARR-CERT	Q1 1999	Accredited	Not member	Research and Education	See: www.cert.garr.it
141.	S2OC		Not listed	Not member	ISP Customer Base	Covers all sites of Telecom Italia. See: http://www.telecomitalia.com/CERT
142.	SICEI-CERT		Not listed	Not member	80 Dioceses of the Catholic Church	Formerly SOC-IDS-CEI. See: http://cert.chiesacattolica.it
143.	IT-CERT	5/6/2014	Listed	Not member	Government, National	mailto:cert@mise.gov.it

3.24 Latvia

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
144.	CERT.LV	Q3 2006	Accredited	Member	National / Governmental	See: www.cert.lv

3.25 Lithuania

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
145.	CERT-LT	Q4 2006	Accredited	Member	National / Governmental	See: www.cert.lt and www.esaugumas.lt
146.	SVDPT-CERT	Q2 2008	Accredited	Not member	Governmental	Formerly IST-SVDPT See: www.svdpt.gov.lt
147.	LTU MOD CIRT		Listed	Member	Military	See: www.kam.lt
148.	LITNET CERT	Q2 1998	Accredited	Member	Research and Education	See: https://cert.litnet.lt
149.	NRD CIRT	Q1 2014	Listed	Member	Service Provider Customer Base	See: https://www.nrdcs.lt

3.26 Luxembourg

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
150.	CERT-XLM	Q1 2014	Listed	Not member	Service Provider Customer Base	See: http://www.excellium-services.com/
151.	DVG-CERT	Q3 2014	Listed	Not member	Financial Sector	
152.	GOVCERT.LU	Q2 2011	Accredited	Not member	Governmental CERT	See: www.govcert.lu
153.	CIRCL	Q1 2008	Accredited	Member	National CERT	See: www.circl.lu
154.	CSRRT-LU		Not listed	Not member	Research and Education	CSRRT-LU is a computer security research and response team association based in the Grand-Duchy of Luxembourg. See: www.csrrt.org
155.	HealthNet	Q1 2014	Listed	Not member	Governmental	See: http://www.healthnet.lu/
156.	Malware.lu CERT	Q4 2012	Accredited	Not member	Service Provider Customer Base	See: http://www.malware.lu
157.	RESTENA-CSIRT	Q1 2008	Accredited	Not member	Research and Education	See: www.restena.lu/csirt

158.	Telindus-CSIRT	Not specified	Not Listed specified	Not member not member	Commercial Organisation, ISP Customer Base	mailto:csirt@telindus.lu Commercial Organisation, ISP Customer Base	mailto:csirt@telindus.lu
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3.27 Malta

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
159.	CSIRT Malta	Q1 2013	Not Listed	Not member	National	See: http://csirtmalta.org
160.	mtCERT	Q3 2002	Accreditation Suspended	Not member	Governmental	See: www.mtcert.gov.mt

3.28 Moldova

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
161.	MD-CERT		Listed	Not member	Research and Education	See: www.cert.md

3.29 Montenegro

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
162.	CIRT.ME	Q3 2011	Listed	Member	National	See: www.cirt.me

3.30 Netherlands (The)

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
163.	AAB GCIRT	Q4 2001	Listed	Member	Financial Sector	See: www.abnamro.com
164.	AMC-CERT	Q3 2000	Listed	Not member	Research and Education	
165.	CERT-IDC	Q3 2001	Listed	Not member	Service Provider Customer Base	
166.	CERT-RU	Q4 2001	Listed	Not member	Research and Education	See: www.ru.nl
167.	CERT-RUG	Q1 2002	Accredited	Not member	Research and Education	See: www.rug.nl
168.	CERT-UU	Q3 2000	Listed	Not member	Research and Education	
169.	DefCERT	Q4 2010	Listed	Member	Military	See: www.defcert.nl
170.	EduTel-CSIRT		Listed	Not member	ISP Customer Base	See: www.edutel.nl
171.	FoxCERT	Q1 2012	Accredited	Not member	Commercial Organisation	See: http://www.foxcert.com
172.	IBD	Q1 2013	Accredited	Not member	Governmental	See: http://www.IBDgemeenten.nl/
173.	ING Global CIRT	Q4 2006	Listed	Member	Financial Sector	

174.	KPN-CERT	Q2 1995	Accredited and Certified	Member	ISP Customer Base	See: www.kpn-cert.nl
175.	NCSC-NL	Q2 2002	Accredited and Certified	Member	National / Governmental	See: http://www.ncsc.nl
176.	RABOBANK SOC	Q2 2008	Listed	Member	Financial Sector	See: www.rabobank.nl
177.	SURFcert	Q4 1992	Accredited	Member	Research and Education	See: http://cert.surfnet.nl
178.	UvA-CERT	Q3 2000	Listed	Not member	Research and Education	See: http://ic.uva.nl/cert

3.31 Norway

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
179.	DnB IRT	Q2 2008	Not listed	Member	Financial Sector	See: www.dnb.no
180.	FinansCERT	Q2 2014	Not listed	Member	Financial Sector	See: http://www.finanscert.n
181.	HelseCSIRT	Q4 2014	Not listed	Member	Governmental	See: http://www.nhn.no
182.	mIRT	Q1 2002	Not listed	Member	ICT Vendor Customer Base	See: http://mnemonic.no
183.	NorCERT	Q2 2004	Accredited	Member	National / Governmental	See: www.cert.no
184.	Statoil CSIRT	Q4 2008	Not listed	Member	Commercial Organisation	See: www.statoil.com
185.	Telenor CERT	Q2 2010	Not listed	Member	Major Service Provider	See: www.telenor.com
186.	UiO-CERT	Q2 2005	Accredited	Member	Research and Education	See: http://cert.uio.no
187.	UniNett CERT	Q2 1995	Accredited	Member	Research and Education	See: http://cert.uninett.no

3.32 Poland

This section includes the details of the CERTs for this country:



NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
188.	CERT Orange Polska	ISP Customer Base	Accredited	Not member	ISP Customer Base	
189.	CERT POLSKA	Q1 1996	Accredited	Member	De Facto National	See: www.cert.pl
190.	CERT.GOV.PL	2008	Listed	Not member	Governmental CERT	See: www.cert.gov.pl
191.	ComCERT.PL	Q1 2015	Listed	Not member	Commercial Organisation	See:
192.	PIONIER-CERT		Listed	Not member	Research and Education	Formerly POL34-CERT. See: http://cert.pionier.gov.pl
193.	TP CERT		Listed	Member	ISP Customer Base	See: http://www.orange.pl/cert.phtml

3.33 Portugal

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
194.	CERT.PT	Q3 2002	Accredited	Member	De Facto National	See: www.cert.pt
195.	DGS-IRT	Q1 2005	Accredited	Not member	Vendor Customer Base	See: www.dognaedis.com
196.	CSIRT.FEUP	Q1 2006	Accredited	Not member	Research and Education	See: http://csirt.fe.up.pt
197.	csirtPT	Q1 2010	Accredited	Not member	ISP Customer Base	See: http://csirt.telecom.pt

3.34 Romania

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
198.	CERT-RO	Q2 2011	Listed	Not member	National / Governmental	See: www.cert-ro.eu
199.	CORIS-STIS	Q1 2008	Accredited	Not member	Governmental CERT	See: https://corisweb.stsisp.ro
200.	RoCSIRT	Q1 2009	Accredited	Member	Research and Education	See: www.csirt.ro
201.	STI CERT	Q1 2012	Listed	Not member	Commercial Organization	cert@safetech.ro

202.	UTI CERT	Q3 2014	Listed	Not member	Commercial Organisation	csirt@uti.ro
203.	STI CERT	01/03/2012	Listed	Not member	National / Governmental	mailto:cert@safetech.ro

3.35 Russian Federation

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
204.	CERT-GIB		Listed	Not member	Service Provider Customer Base	See: www.cert-gib.com
205.	RU-CERT	Q1 1998	Accredited	Member	Research and Education	See: www.cert.ru
206.	WebPlus ISP	Q4 2000	Listed	Not member	ISP Customer Base	See: http://support.wplus.net

3.36 Serbia

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
207.	AMRES-CSIRT		Listed	Not member	Research and Education	See: http://csirt.amres.ac.rs

3.37 Slovakia

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
208.	CSIRT.SK	Q3 2009	Accredited	Not member	National / Governmental	See: www.csirt.gov.sk

3.38 Slovenia

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
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209.	SI-CERT	Q4 1994	Accredited	Member	National / Governmental, Research and Education	See: www.cert.si
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3.39 Spain

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
210.	AndaluciaCERT		Listed	Not member	Governmental	
211.	CN-CERT	Q4 2006	Accredited	Member	National / Governmental	See: www.ccn-cert.cni.es
212.	CERTSI	Q2 2007	Accredited	Member	National	incidencias@certsi.es
213.	CSUC-CSIRT	Q1 2011	Listed	Not Member	Research & Education	http://www.cesca.cat/en/communications/security/incident-response-team
214.	CERTSI	Q2 2007	Accredited	Member	National	incidencias@certsi.es
215.	CESICAT-CERT	Q1 2010	Accredited	Member	Governmental	See: www.cesicat.cat
216.	COSDEF-CERT	Q4 2011	Listed	Not member	Military	Contact: cosdef-cert@oc.mde.es
217.	CyberSOC-CERT	Q4 2012	Not Listed	Not member	Service Provider Customer Base	See: https://cybersoc.deloitte.es/
218.	CSIRTCV	Q2 2007	Accredited	Not member	Governmental	See: www.csirtcv.es
219.	e-LC CSIRT	Q1 2005	Listed	Member	Financial Sector	
220.	esCERT-UPC	Q4 1994	Accredited	Member	Research and Education	See: http://escert.upc.edu
221.	Incita Security CERT	Q1 2006	Listed	Member	Vendor Customer Base	See: http://www.tb-security.com/
222.	INTECO-CERT	Q2 2007	Accredited	Member	National / Governmental	See: http://cert.inteco.es
223.	IRIS-CERT	Q4 1995	Accredited	Member	Research and Education	See: www.rediris.es/cert
224.	MAPFRE-CCG-CERT		Listed	Member	Financial Sector	
225.	S21sec CERT	Q1 2000	Accredited	Member	Service Provider Customer Base	See: https://cert.s21sec.com
226.	TBSecurity-CERT	Q1 2006	Not listed	Member	ICT Vendor Customer Base	See: www.tb-security.com

227.	Telefonica-CSIRT	Q4 2005	Listed	Member	Service Provider Customer Base	See: http://www.internationalervices.telefonica.com/csirt.html
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3.40 Sweden

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
228.	2S-CSIRT	Q1 2011	Listed	Not member	Service Provider Customer Base	See: http://www.2secure.se/
229.	BF-SIRT	Q1 2012	Listed	Member	ISP Customer Base	See: http://www.basefarm.com/
230.	CERT-SE	Q1 2003	Accredited and Certified	Member	National / Governmental	See: www.cert.se
231.	FM CERT	Q1 2002	Listed	Not member	Military	See: http://www.forsvarsmakten.se/
232.	Handelsbanken SIRT	Q1 2006	Accredited	Not member	Financial Sector	
233.	LiU IRT	Q1 2007	Accredited and Certified	Not member	Research and Education	See: www.liu.se
234.	SIST		Listed	Not member	Research and Education	See: www.snic.vr.se
235.	SUNet CERT	Q4 2000	Accredited	Member	Research and Education	See: www.cert.sunet.se
236.	Swedbank SIRT	Q3 2003	Accredited	Not member	Financial Sector	
237.	TS-CERT	Q1 1997	Accredited and Certified	Member	Service Provider Customer Base	Also located in Finland, Denmark, Norway, Latvia and Lithuania. See: www.teliasonera.com
238.	UU-CSIRT	Q1 2001	Accredited	Not member	Research and Education	csirt@uu.se

3.41 Switzerland

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
239.	BVCERT	Q1 2011	Listed	Not member	Financial Sector	See: http://www.vontobel.ch/
240.	CERN CERT		Listed	Not member	Research and Education	See: http://cern.ch/security
241.	ETHZ-NSG	Q1 1996	Accredited	Not member	Research and Education	
242.	GovCERT.CH	Q1 2008	Accredited	Member	Governmental	See: www.melani.admin.ch
243.	IP+ CERT	Q1 1995	Listed	Member	Service Provider Customer Base	
244.	OS-CIRT		Listed	Member	Service Provider Customer Base	
245.	SWITCH-CERT	Q1 1995	Accredited and Certified	Member	De facto national	See: www.switch.ch/cert
246.	Swisscom CSIRT	Q1 1995	Not listed	Member	ISP Customer Base	See: csirt@swisscom.com
247.	UPCCH Abusedesk		Listed	Member	Service Provider Customer Base	Formerly CC-SEC

3.42 Turkey

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
248.	BGA-CSIRT	Q2 2014	Accredited	Not member	Commercial Organization	cert@bga.com.tr
249.	SignalSEC Research	Q1 2011	Listed	Not member	Commercial Organization	cert@signalsec.com
250.	TR-CERT	Q2 2007	Accredited	Not member	National / Governmental	See: www.usom.gov.tr
251.	Ulak-CSIRT	Q2 2005	Accredited	Not member	Research and Education	See: http://csirt.ulakbim.gov.tr

3.43 Ukraine

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
252.	CERT-UA		Listed	Member	Military, Governmental	See: www.cert.gov.ua

3.44 United Kingdom

This section includes the details of the CERTs for this country:

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
253.	BTCERTCC	Q1 1999	Accredited	Member	ISP Customer Base	
254.	Bunker	Q1 2004	Not listed	Member	ISP Customer Base	See: www.thebunker.net
255.	CIS-CERT	Q1 1998	Listed	Member	Service Provider Customer Base	See: www.contextis.co.uk
256.	CITIGROUP	Q3 2000	Listed	Not member	Financial Sector	Also located in the USA.
257.	CERT-UK	Q1 2014	Listed	Member	National	See: www.cert.gov.uk
258.	DAN-CERT	Q1 1999	Accredited	Member	Research and Education	See: www.dante.net/dancert
259.	DCSIRT	Q3 2005	Listed	Member	Commercial Organisation	
260.	E-CERT	Q1 2002	Listed	Not member	ISP Customer Base	
261.	ESISS	Q2 2009	Accredited	Not member	ISP Customer Base	See: www.esiss.ac.uk
262.	EUCS-IRT	Q2 2002	Listed	Not member	Research and Education	
263.	GovCertUK	Q1 2007	Listed	Member	National / Governmental	See: www.govcertuk.gov.uk
264.	Janet CSIRT	Q1 1993	Not listed	Not member	Research and Education	See: https://www.jisc.ac.uk/esiss
265.	KPMG-CSIRT	Q2 2001	Listed	Member	Commercial Organisation	See: www.kpmg.co.uk/cyber
266.	MLCIRT		Listed	Not member	Financial Sector	Also located in the USA.
267.	MODCERT		Listed	Member	Military, Governmental	See: www.mod.uk
268.	NGRID-CSIRT	Q2 2011	Not listed	Member	Energy Sector	See: www.nationalgrid.com
269.	OxCERT		Listed	Member	Research and Education	See: www.ox.ac.uk

NR.	CERT NAME	DATE OF ESTABLISHMENT	TI STATUS	FIRST MEMBERSHIP	CONSTITUENCY	ADDITIONAL INFORMATION
270.	P-CIRF	Q4 1992	Not listed	Member	Commercial Organisation	See: www.portcullis-security.com
271.	Q-CIRT		Listed	Member	Service Provider Customer Base	See: www.qinetiq.com
272.	RBSG-ISIRT	Q4 2003	Listed	Member	Financial Sector	Also located in Australia, Belgium, France, Germany, Gibraltar, Hong Kong, India, Ireland, Italy, Japan, Monaco, the Netherlands, Singapore and the USA. See: www.rbs.co.uk
273.	UCL CERT	Q3 2001	Listed	Not Member	Research & Education	Contact: cert@ucl.ac.uk
274.	WAR-CSIIRT		Listed	Member	Research and Education	See: www.warwick.ac.uk
275.	GEANT CERT	Q1 1999	Certified	Members	Research and Education	dancert@dante.net

4. CERT co-operation activities and projects in Europe

4.1 CERT-Verbund (Germany)

Target Audience: German CERTs

More Info: <http://www.cert-verbund.de>

The German national CERT-Verbund is an alliance of German security and emergency response teams. The CERT-Verbund provides the German teams with a framework for co-operation and information sharing. Besides this, all the single teams stay autonomous in their responsibility for their respective constituency.

The CERT-Verbund has the following overall goals:

- Protection of the national IT-networks
- Immediate joint reaction to security incidents

The CERT-Verbund looks after the following projects:

- DAF - Deutsches Advisory Format (German advisory format)
- SIRIOS – System for Incident Response in Operational Security

4.2 Austrian Trust Circle

Austrian Circle of Trust is an initiative of the Austrian Federal Chancellery and CERT.at and consists of Security Information Exchanges in the various areas of strategic information infrastructure (CIIP).

CERT.at offers in cooperation with GovCERT Austria and the Austrian Federal Chancellery a formal framework for practical information exchange and joint projects in the area of security.

Objectives of the Austrian Trust Circles are

- Support of self-help in the sectors in security
- Operational contacts for CERT.at in information about and handling of security incidents in the organizations
- Operational expert for the Federal Chancellery in a crisis
- Act creating a trust to be able to share in an emergency
- Networking and information sharing within and between sectors of strategic infrastructure

4.3 Dutch national cooperation (o-IRT-o)

Target Audience: Incident handlers in the Netherlands

More info: <http://www.cert.nl>

o-IRT-o stands for the Dutch name 'operationeel Incident Response Team overleg' (operational Incident Response Team meeting). This forum is initiated by GOVCERT.NL in 2002. At the moment 31 organizations are participating in o-IRT-o.

o-IRT-o is a group of incident handlers from the public and private sector in the Netherlands. Participants from the private sector are handlers at ISP's, banks, multi-national or industrial companies. From the public

sector GOVCERT.NL is participating but also universities, employees from the national police force and the High-Tech Crime Centre.

GOVCERT.NL facilitates this forum to stimulate the exchange of knowledge about various security- and incident-related topics like incidents, security-threat trends and best practices. Also, we would like to stimulate that incident handlers in the Netherlands know each other and that they can co-operate together during serious incidents.

Participants of o-IRT-o have signed a non-disclosure agreement. This agreement is signed on behalf of the person, not on behalf of the organization where the participant works for.

4.4 EGC – European Government CERTs Group

Target Audience: European Government CERTs

More Info: <http://www.egc-group.org>

The European Government CERTs group (EGC) is an informal group of governmental CSIRTs that is developing effective co-operation on incident response matters between its members, building upon the similarity in constituencies and problem sets between governmental CSIRTs in Europe.

To achieve this goal, the ECG group members will:

- Jointly develop measures to deal with large-scale or regional network security incidents
- Facilitate information sharing and technology exchange relating to IT security incidents and malicious code threats and vulnerabilities
- Identify areas of specialist knowledge and expertise that could be shared within the group
- Identify areas of collaborative research and development on subjects of mutual interest
- Encourage formation of government CERTs in European countries Communicate common views with other initiatives and organisations.

4.5 NordUNET

Target Audience: CERTs in northern Europe/Scandinavia

More Info: <http://www.nordu.net>

NORDUnet is an international collaboration between the Nordic national networks for research and education. It interconnects these networks and connects them to the worldwide network for research and education and to the general purpose Internet. The current physical connections are shown on the connectivity map.

NORDUnet provides its services by a combination of leased lines and Internet services provided by other international operators. In addition to the basic Internet service NORDUnet operates information services and provides USENET NetNews and Multicast connectivity to the Nordic national networks.

NORDUnet also coordinates the Nordic national networks' IPv6 activities including the 6NET project and the national networks' CERT (Computer Emergency Response Team) activities.

NORDUnet has only few permanent employees. Most of the work is contracted to appropriate organisations in the Nordic area. NORDUnet is the result of the NORDUNET programme (1986 to 1992) financed by the Nordic Council of Ministers.

4.6 TF-CSIRT - Task Force of Computer Security and Incident Response Teams

Target Audience: European and international CERTs

More Info: <https://www.terena.org/activities/tf-csirt/>

Computer security incidents require fast and effective responses from the organisations concerned. Computer Security Incident Response Teams (CSIRTs) are therefore responsible for receiving and reviewing incident reports, and responding to them as appropriate. TF-CSIRT is a task force that promotes collaboration and coordination between CSIRTs in Europe and neighbouring regions, whilst liaising with relevant organisations at the global level and in other regions.

Goals of the task force

TF-CSIRT provides a forum where members of the CSIRT community can exchange experiences and knowledge in a trusted environment in order to improve cooperation and coordination. It maintains a system for registering and accrediting CSIRTs, as well as certifying service standards.

The task force also develops and provides services for CSIRTs, promotes the use of common standards and procedures for handling security incidents, and coordinates joint initiatives where appropriate. This includes the training of CSIRT staff, and assisting in the establishment and development of new CSIRTs. The task force further liaises with FIRST, ENISA, other regional CSIRT organisations, as well as defence and law enforcement agencies.

Secretarial support for this task force is provided by GÉANT.

Restructuring the task force

The new structure has been approved. The main changes are as follows:

- Introduction of membership based on existing TI categories.
- Introduction of an elected Chair.
- Transition TI Review Board to TF-CSIRT Steering Committee with enhanced role.
- TF-CSIRT to formally coordinate Trusted Introducer and TRANSITS services.
- Consolidation of ad-hoc procedural documents into new Terms of Reference.

Until 2015, the geographical scope of TF-CSIRT and Trusted Introducer was limited to Europe, the Middle East and Mediterranean Africa. Moving forward, the focus of TF-CSIRT remains European, and all TF-CSIRT meetings will continue to be held within Europe. Following demand from the broader CSIRT community, the geographical scope has now been broadened and teams from all geographical regions are entitled to join.

4.6.1 TF-CSIRT activities

- Organizing meetings for the task force
- Overseeing the Trusted Introducer service
- Organizing TRANSITS courses
- Overseeing RTIR incident handling software development
- Support dissemination of abuse contacts
- Review privacy and data protection procedures and regulations

4.7 TI - Trusted Introducer

Target Audience: European CERTs

More Info: <https://www.trusted-introducer.org/>

Hackers, viruses, and other security incidents pose an ever growing threat to the smooth operation of the Internet, which has by now become the main artery of information in the world and a major economic factor. Professionally managed networks have therefore established teams known as CSIRTs to deal with security incidents. Historically such teams were known as CERTs (Computer Emergency Response Teams). Collaboration between these teams is crucial because in many cases incidents originate from outside the network that is being affected. Such collaboration needs to be based on sufficient trust between the teams; reliable CSIRTs together form a closely-knit community, which is sometimes referred to as a "Web of Trust".

Originally the "Web of Trust" was based on personal relations between staff members of the CSIRTs concerned. However, with the growth of the Internet, and hence of the number of CSIRTs, and with frequent staff changes this is no longer feasible. Also procedures whereby a team is introduced into the "Web of Trust" on the basis of a recommendation from a CSIRT that is already in that Web have turned out not to be scalable. The Trusted Introducer Service (TI) has been set up to address this problem.

The TI provides European CSIRTs (Computer Security Incident Response Teams) with a public repository that lists all known European CSIRTs and explains about the TI's accreditation service. This service is meant to do just that: facilitate trust by formally accrediting CSIRTs that are ready to take that step. For a CSIRT to proceed from the status of "listed" to the status of "accredited" they need to go through a formalized accreditation scheme. Once "accredited" they gain access to the restricted TI repository: there they find the details about their fellow accredited CSIRTs, and several value-added services like readily downloadable contact lists and PGP-Key rings, secure discussion forum, automatic RIPE Database IRT-object registration and more.

A crucial service that is part of the accredited status of CSIRTs is maintenance: in a four-monthly cycle the actuality of data is verified with the accredited CSIRTs to prevent these data from going out-of-date.

4.7.1 Short History

Originally commissioned by TERENA, the process for the Trusted Introducer - often referred to as just "TI" - was developed by Don Stikvoort and Klaus-Peter Kossakowski. Their work was reviewed by the community of European CSIRTs.

Currently, the Trusted Introducer Service is operated by PRESECURE Consulting GmbH, Germany, in co-operation with other well-known members of the community, under contract from the GEANT, which acts in this role on behalf of the TI Accredited and Certified teams that define and pay for the Trusted Introducer service and some of the TF-CSIRT activities.

The TF-CSIRT Steering Committee, which has taken the role of the previous TI Review Board, is coordinating the activities of the Task Force including the Trusted Introducer Service. It is comprised of the TF-CSIRT Chair, the TF-CSIRT Secretary (an ex-officio representative of GEANT) and four elected representatives.

4.8 ENISA – Annual CERTs workshops

Target Audience: National / Governmental CERTs from the EU Member States

More Info: <https://www.enisa.europa.eu/activities/cert>

Since 2005, and on an annual basis, ENISA organises workshops for National and Governmental CERT teams from the EU Member States. These workshops cover subjects ranging from the establishment of a CERT to deep technical topics such as botnet mitigation and massive cyber-attacks. As such, the following workshops took place in the past:

- 1st workshop (December 2005, Brussels), on “Lessons learned and good practice”;
- 2nd workshop (October 2006, Brussels), on “Setting –up and cooperation”;
- 3rd workshop (September 2007, Porto), on “Mitigation of Massive Cyberattacks”;
- 4th workshop (May 2008, Athens), on “The role of CERT teams in National incident response plans”;
- 5th workshop (May 2010, Athens), on “CERTs in Europe”;
- 6th workshop (October 2011, Prague), on “Addressing NIS aspects of cybercrime”;
- 7th workshop, part I (June 2012, Valletta), providing a hands-on technical training for national/governmental CERT teams;
- 7th workshop, part II (October 2012, The Hague), on “CERTs and LEA addressing botnets”.
- 8th workshop, part I (May 2013, Bucharest), providing a hands-on technical training for national/governmental CERT teams;
- 8th workshop, part II (October 2013, The Hague), on “(automated) information sharing between CERTs and LEA”. AntiPhishing Working Group (APWG)
- 9th Workshop, Part I (May 2014, Heraklion), on “CERTs and Industrial Control Systems”
- 9th workshop, Part II (October 2014, The Hague)
- 10th Workshop (May 2015, Riga)

4.9 EU FI-ISAC

Target Audience: European CERTs, Law enforcement authorities and banks.

The EU FI-ISAC is a European cooperation initiative formed in 2008 by ENISA, CPNI.NL and stakeholders from Hungary, England and Switzerland. It aims at facilitating the sharing of information over incidents, threats and vulnerabilities between banks, law enforcement authorities and CERTs from different countries.

This international collaboration is facilitated through the use of common definitions, protocols (i.e. Traffic Light Protocol) and of a Membership Guideline. Four workshops have been organised by ENISA around this initiative between 2008 and 2010. Since that time the initiative has grown in participation and continues to operate by having two physical meetings per year.

5. CERT supporting activities and projects

5.1 CERT-in-a-box/Alerting-Service-in-a-box

Focus: Setting up a CERT

Target Audience: CERTs in creation.

The project 'CERT-in-a-Box' and 'Alerting service-in-a-Box' is an initiative of GOVCERT.NL to preserve the lessons learned from setting up GOVCERT.NL and 'De Waarschuwingsdienst', the Dutch national Alerting service.

The project aim is to help others starting a CSIRT or Alerting Service by:

- Getting them up to speed faster;
- Taking the benefits and not making the same mistakes.

The CSIRT/CERT model can help you to get your organisation moving in matters of security handling and prevention, setting up the necessary policies for security and safe working methods and creating a security-aware culture within your company or Government. Some quotes to bear in mind when starting the implementation phase:

- 'Security is not a product but it is a process' - by Bruce Schneier;
- 'Plan your dive and dive your plan' - PADI diving rule;
- 'A CSIRT team is like a fire-brigade! It's just sad we don't have those shiny fire engines' – HB.

5.2 CSIRT mentoring scheme

Focus: Help new CERTs making “first steps”

Target Audience: Newly founded European CERTs

More Info: <http://www.terena.nl/tech/task-forces/tf-csirt/mentoring.html>

Starting or developing a CSIRT can sometimes seem a daunting step. Although there is a considerable amount of published material available, for example from the CERT Co-ordination Centre's (CERT/CC) new teams support group in America and TERENA's CSIRT Task Force (TF-CSIRT) in Europe, new teams may also find it helpful to be able to talk to someone from an existing CSIRT for either information or reassurance. Many CSIRTs have offered an informal mentoring service for some time: this website aims to provide a single source of information about mentoring for new teams, particularly in Europe and neighbouring countries.

There are already a large number of national and international CSIRTs in Europe, covering education, government and commercial sectors. Although their first priority is to protect and inform their own constituencies, many of them are also prepared to volunteer some of their staff's time to help others who are trying to establish or develop their own teams. This help might cover, for example, informal advice when planning or establishing a team or help with the Trusted Introducer or FIRST membership processes. Depending on the mentor team, help might be provided by e-mail or telephone or by face-to-face meetings.

5.3 CSIRT Starter Kit

Focus: Established CERTS help new CERTs with the “first steps”

Target Audiences: Newly set up CERTs; CERTs in setting up process

More Info: <https://www.terena.org/activities/tf-csirt/starter-kit.html>

Many organisations are interested in having their own team to handle computer security incidents, but don't know where to start. Nowadays the problem is not that there is not enough information, rather that there is too much. This page therefore gives pointers to the first things you should read, before moving on to more comprehensive sites such as that maintained by the CERT Co-ordination Centre (CERT-CC).

5.4 Handbook of legislative Procedures for CSIRTs

Focus: Helping CSIRTs to deal with cyber-crime law

Target audience: European CERTs

More Info: http://www.rand.org/pubs/technical_reports/TR337

In 2003 the European Commission commissioned RAND Europe to develop a Handbook that provided an easy to use guide matching technical descriptions of incidents to the legal framework of the country in question, and detailed procedures for working with law enforcement to respond to incidents. This handbook was tailored to the user requirements of Europe's Computer Security Incident Response Team (CSIRT) community. RAND Europe and Lawfort were invited to update this first version of the Handbook, to take into account the recent developments in the legal framework in the EU and more importantly, to extend its scope to cover the situation in the 10 new Member States which joined the European Union on 1st May 2004. The MODINIS work programme supports this activity under the heading of "favouring co-ordination between CSIRTs."

The project has developed a report that provides an easy-to-read overview of the legal procedures of computer and network misuse in EU Countries for Assisting Computer Security Incident Response Teams (CSIRTs). This handbook provides user-friendly access to up to date information on rules and regulations concerning computer misuse and the collection and reporting of computer evidence currently in force in all 25 EU countries, together with guidelines as to when and how law enforcement must be informed of incidents. The project team has also developed a CD-ROM and a dedicated open website where CSIRT teams and other interested parties can access to information about national legal approaches to cybercrime in Europe. For more information about the project, please contact Lorenzo Valeri (lvaleri@rand.org) and Neil Robinson (neilr@rand.org).

5.5 RTIR - Request Tracker for Incident Response WG

Focus: Extend “Request Tracker” program to fit the needs of CERT

Target Audiences: CERTs and other Incident Handling Capacities

More Info: <http://www.terena.nl/tech/task-forces/tf-csirt/rtir.html>

The Task Force will define a way to set requirements, investigate ideas, develop new modules and generally monitor the progress of the Request Tracker for Incident Response (RTIR) Incident Handling tool. This work will be carried out under a statement of work with Best Practical Solutions LLC or by Task Force participants themselves. The aim of the activity is to extend the current application, by making it more

stable and adding new functionality, thus making it more adaptable for the general use of new, as well as established CSIRTs.

5.6 TRANSITS - Training of Network Security Incident Teams Staff

Focus: Educate staff of new teams in CERT issues

Target Audiences: CERTs, primarily but not necessarily only newly build ones

More Info: <http://www.terena.org/activities/transits>

TRANSITS is a training programme targeting new and experienced CSIRT personnel, as well as individuals with a bona-fide interest in establishing a CSIRT. It originates from a European Commission funded project to promote the establishment of CSIRTs by addressing the shortage of skilled staff, which ran from July 2002 to September 2005.

The courses are run within Europe by TERENA on a cost recovery basis, with financial support from ENISA, FIRST and other organisations.

TRANSISTS currently offers two types of training courses:

- TRANSITS-I, aimed at new or potential CSIRT personnel wishing to gain a good grounding in the main aspects of working in an incident handling and response team;
- TRANSITS-II (introduced in 2010), aimed at more experienced personnel working for established CSIRTs. This course provides an in-depth study of key areas in incident handling and response operations, training in how to improve communications with constituents, along with practical exercises.

5.7 CiSP - Cyber information Sharing Partnership

Focus: A joint UK industry government initiative which allows members to share information on threats and vulnerabilities in a secure online environment. It is aimed at a broad range of sectors and has relevant material for SMEs, larger companies and government.

Target Audience: National - industry/communities in the UK

More Info: www.cert.gov.uk/cisp

This model is leading the way for information within the cyber security community, and has helped to increase the cyber resilience of the UK as a whole. It encompasses a national, collaborative approach to cyber-security, and has groups which bring together sectors, themes and geographic locations. The WARPs programme now sits as part of CERT-UK. WARPs are actively encouraged to work as part of the CiSP platform, and engage with regional nodes.

WARPs (Warning, Advice and Reporting Points) are part of NISCC's information sharing strategy to protect the UK's Critical National Infrastructure from electronic attack. WARPs have been shown to be effective in improving information security by stimulating better communication of alerts and warnings, improving awareness and education, and encouraging incident reporting. Membership of a WARP can also reduce the costs of good Security.

WARP members agree to work together in a community and share information to reduce the risk of their information systems being compromised and therefore reduce the risk to their organisation. This sharing

community could be based on a business sector, geographic location, technology standards, risk grouping or whatever makes business sense.

WARPs can deliver more effective and lower cost security by providing to members:

- A trusted environment
- Security information filtering
- Access to expert advice
- Early warning of threats
- Strategic decision support
- Improved awareness

WARPs are currently established in the following sectors: Local Government, SMEs, Voluntary, Home Users, Emergency Services, Managed Service Providers, but are suitable for all types of community.

5.7.1 The WARP Toolbox

NISCC provides interested parties with a comprehensive Toolbox to help build new WARPs. The WARP Toolbox website supports the development and provision of three core WARP services, which, between them, deliver all the benefits listed above:

- **Filtered Warning Service** — where members receive only the security information relevant to their needs as determined by categories selected in an on-line tick-list. These categories cover Warnings & Advisories associated with Vulnerabilities & Fixes; Threats & Incidents and Good Practice.
- **Advice Brokering Service** — where members can learn from other members' initiatives & experience at meetings or using a bulletin board messaging service restricted to WARP members only. Subjects can be anything which adds value to the members e.g. patch management; training; supplier/product evaluations, security awareness.
- **Trusted Sharing Service** — where reports are anonymised so members can learn from each other's attacks & incidents without fear of embarrassment or recrimination.

The Filtered Warnings Application (FWA) is a specially developed software suite that provides personal level filtering of advisories and other notifications for each WARP member, and other membership management services. It was written specifically for the WARP programme and is only available to Registered WARPs (see <http://www.warp.gov.uk/WarpRegister.htm>). It may be used by some CERTs in cooperation with WARPs, by arrangement. The FWA software will use an XML schema based on the VEDEF standard to encourage a standardised but flexible Advisory format for use by all WARPs, and CERTs etc.

5.8 ENISA exercise material for CERTs

This material intends to help CERTs to train to react to everyday- and special events. The material produced in 2008 and updated in 2012 contained 23 exercises in various scenarios, ranging from CERT internal activities to coordination activities during large scale cyber attacks against whole countries.

In 2013 the existing collection was complemented with new exercise scenarios containing essential material for success in the CERT community and in the field of information security.
<https://www.enisa.europa.eu/activities/cert/training/training-resources>

6. CERT standardisation activities

6.1 CAIF - Common Advisory Interchange Format

Standardisation: Exchange Format for security advisories

More Info: <http://cert.uni-stuttgart.de/projects/caif>

CAIF is an XML-based format to store and exchange security announcements in a normalized way. It provides a basic but comprehensive set of elements that is designed to describe the main aspects of an issue related to security. The set of elements can easily be extended to reflect temporary, exotic or new requirements in a per-document manner. Besides addressing more than one problem within a single document the format allows to group information for more than one target group of readers as well as multi-lingual textual descriptions within one document. This can be used to selectively produce different renderings of an announcement for the intended target groups addressing one, a sub-set, or all problems multi- or mono-lingual in the languages provided.

6.2 DAF - Deutsches Advisory Format/German Advisory Scheme

Standardisation: Exchange Format for security advisories, deducted from EISPP

DAF is an initiative of the German CERT-Verbund and is a core component of an infrastructure for the generation and of security advisories by different teams. DAF is especially tailored for the needs of the German CERTs, which is developed and maintained by CERT-Bund, DFN-CERT, PRESECURE and Siemens-CERT.

The goals of the cooperation in the area of security advisories are:

- Improve the quality of advisories
- Quality assurance
- Development of a model for system description
- Establishment of a common rating scheme
- Release of resources for better analysis capabilities

DAF is derived from EISPP, a project co-funded by the European Community under the Fifth Framework Programme.

6.3 EISPP - European Information Security Promotion Program

Standardisation: Exchange Format for security advisories

The European Information Security Promotion Programme (EISPP) is a project co-funded by the European Community under the Fifth Framework Programme. The EISPP project aims to develop a European framework, not only to share security knowledge but also to define the content and ways of disseminating security information to SMEs. By providing European SMEs with the necessary IT security services they will be encouraged to develop their trust and usage of e-commerce leading to increased and better opportunities for new business. The EISPP is a pioneer in the European Commission's vision of forming a European network of expertise within the European Union.

The project started in June 2002 and ran until January 2004. It has been run by a consortium of private sector organisations, comprising CERTs, ISP/ASPs, and Security professional organisations. The Consortium members are Cert-IST, esCERT-UPC, SIEMENS-CERT, Callineb Consulting, I-NET, CLUSIT and InetSecur.

6.4 STIX - Structured Threat Information eXpression

Standardisation: Structured cyber threat information exchange format

More info: <http://stix.mitre.org/>

STIX is a collaborative community-driven effort to define and develop a standardized language to represent structured cyber threat information. The STIX Language intends to convey the full range of potential cyber threat information and strives to be fully expressive, flexible, extensible, automatable, and as human-readable as possible. All interested parties are welcome to participate in evolving STIX as part of its open, collaborative community. TAXII is the preferred transport mechanism for STIX encoded data.

6.5 TAXII - Trusted Automated eXchange of Indicator Information

Standardisation: Services for exchanging cyber threat information

More info: <http://taxii.mitre.org/>

TAXII defines a set of services and message exchanges that, when implemented, enable sharing of actionable cyber threat information across organization and product/service boundaries. TAXII, through its member specifications, defines concepts, protocols, and message exchanges to exchange cyber threat information for the detection, prevention, and mitigation of cyber threats. TAXII is not a specific information sharing initiative or application and does not attempt to define trust agreements, governance, or other non-technical aspects of cyber threat information sharing. Instead, TAXII empowers organizations to achieve improved situational awareness about emerging threats, enabling organizations to share the information they choose with the partners they choose.

TAXII is the preferred method of exchanging information represented using the Structured Threat Information Expression (STIX™) language, enabling organizations to share structured cyber threat information in a secure and automated manner.

6.6 IODEF - Incident Object Description and Exchange Format

Standardisation: Exchange format for incident related data.

Target Audiences: CERTs and other Incident Handling Capacities

More Info:

- Pages of the IODEF Working group (dissolved in 2002): <http://www.terena.nl/tech/task-forces/tf-csirt/iodef.html>
- Pages of the INCH Working group: <http://www.ietf.org/html.charters/inch-charter.html>

Security incidents are becoming more common and more serious, and handling these incidents by Computer Security Incident Response Teams (CSIRTs) is becoming of increasing (commercial) importance. Incidents usually involve multiple CSIRTs of multiple administrative domains, each with their own incident handling systems, formats and procedures. To properly resolve an incident the involved CSIRTs need to exchange data related to the incident. To minimize the time spent on each incident and to allow for further automation of the incident handling process and let incident handlers spend their time on incident

handling instead of pumping data around, it would be advantageous to have a standardized incident data format and standardized incident data exchange procedures.

A standardized extendable data format and standardized incident exchange procedures would also allow aggregation of incident data across multiple administrative domains thus creating the possibility to create automated regular statistics. These statistics are an important enabler for the CSIRT community to spot trends, predict upcoming large-scale attacks, and so on.

The purpose of the Incident Object Description and Exchange Format Working Group is to define a common data format and common exchange procedures for sharing information needed to handle an incident between different CSIRTs and to exchange incident related data between CSIRTs that allows both known and new types of incidents to be formatted and exchanged. The Incident Object Description and Exchange Format Working Group will coordinate its efforts with other (IETF) Working Groups.

In 2002 the IODEF Working group was dissolved and the results transferred to the INCH Working group of the IETF.

6.7 VEDEF - Vulnerability and Exploit Description and Exchange Format SecDEF - Security Description and Exchange Format

Standardisation: Exchange format for security information, vulnerabilities and exploits.

Target Audiences: CERTs and other Incident Handling Capacities

As part of its role on encouraging a 'culture of security' across central and local government, the private sector, and the general public, the Central Sponsor for Information Assurance (CSIA) is participating in initiatives to evolve structured data exchange standards, based upon XML, for UK and international use within Information Assurance (IA).

The overall Security Description and Exchange Format (SecDEF) is a federated effort to encourage the crystallisation of various XML based Description and Exchange Formats (DEF) to support Information Exchange Requirements (IER) related to Security Information where there is a need to cross Management Domains.

Of these initiatives, the one that has been running the longest, is the Vulnerability and Exploit DEF (VEDEF) <http://www.terena.org/activities/tf-csirt/vedef.html>, for which the CSIA-chaired Working Group of the European Task Force on Computer Security Incident Response Teams TF-CSIRT which grew out of earlier UK work by CSIA's colleagues in the National Infrastructure Security Coordination Centre NISCC has been the main focus. CSIA have also been working with other international parties to encourage the evolution of VEDEF, including partners in the USA and Japan.

6.8 ENISA baseline capabilities of national/governmental CERTs

The report cover recommendations and proposals for capabilities of so called national / governmental CERTs, thus teams who serve the government of a country to protect critical information infrastructure.

<http://www.enisa.europa.eu/activities/cert/support/baseline-capabilities>

The first part called "Operational aspects" (2009) was derived from the answers to a survey ENISA carried out among all 120+ publicly listed CERTs in Europe.

This part mainly aims at CERT managers and staff members, has an operational/technical nature and has been very well accepted by the CERT community.

The second part called “Policy recommendations” was drafted in 2010. ENISA made further improvements and presents a set of policy recommendations on baseline capabilities of national/governmental CERTs. The document takes into account recommendations by internationally recognised centres of expertise and draws upon the experience and effective practice of existing CERTs.

This second part aims mainly at supporting policy- and decision-makers in the EU member states in the establishment of a suitable framework that will enable their national / governmental CERTs to operate properly, by shedding a light on policy requirements and experiences in the member states and also by providing some background information on the operations of CERTs so that their requirements and needs are understood better.

In 2012, ENISA focused firstly on assessing the level of compliance with those defined baseline capabilities in the MS. Secondly, the capabilities has being discussed with CERTs and other concerned stakeholders. Where appropriate the capabilities are being adjusted or extended.

In 2013, ENISA assessed the level of compliance of ENISA baseline capabilities of n/g CERTs with other similar schemes and provided a report on harmonisation in areas like terminology, definitions, validation processes and requirements.

7. Updates

To be really useful in the future, this document has to be updated: obsolete information will have to be deleted; information about new teams and activities will have to be validated and added. This document lives from your feedback, so please report mistakes, changes and new information by e-mail to cert-relations@enisa.europa.eu.

Annex A: Main international CERT initiatives outside of Europe

A.1 AP-CERT - Asia Pacific Computer Emergency Response Team

More Info: <http://www.apcert.org>

APCERT (Asia Pacific Computer Emergency Response Team) is a coalition of CSIRTs (Computer Security Incident Response Teams), from 13 economies across the Asia Pacific region. APCERT organizes an annual meeting called APSIRC conference, and the first conference was held in March 2002, Tokyo, Japan.

A.1.1 Membership

Any CSIRT from Asia Pacific Region, who is interested to furthering the objectives of APCERT, will be allowed to join as APCERT members after meeting all member accreditation requirements.

APCERT membership model has 2 levels:

Full members:

Full Members are CSIRTs/CERTs in the Asia Pacific region, who have the right to vote on APCERT issues, as well as to stand for election to the APCERT Steering Committee. All Founding Members are Full Members.

General Members:

Any CSIRTs/CERTs in the Asia Pacific region with an interest in incident response and IT security can join APCERT as a General Member. General Members are not eligible to vote nor to stand for election to the APCERT Steering Committee. An applicant is required to join APCERT as a General Member first. After applicants obtain a General Member status, they can later apply to upgrade their membership to a Full Member status. General Membership is a pre-requisite to become a Full Member.

Accreditation WG is working to develop the membership accreditation rule now. Membership application will be on the web soon.

A.2 FIRST - Forum of Incident Response and Security Teams

More Info: <http://www.first.org>

The Forum of Incident Response and Security Teams (FIRST) consists of a network of individual computer security incident response teams that work together voluntarily to deal with computer security problems and their prevention. These teams represent government, law enforcement, academia, the private sector, and other organisations with justifiable interest as determined by the Steering Committee.

A.2.1 Vision

FIRST is a premier organisation and recognized global leader in incident response. Membership in FIRST enables incident response teams to more effectively respond to security incidents by providing access to best practices, tools, and trusted communication with member teams.

A.2.2 Mission Statement

- FIRST is an international confederation of trusted computer incident response teams who cooperatively handle computer security incidents and promote incident prevention programs.
- FIRST members develop and share technical information, tools, methodologies, processes and best practices

- FIRST encourages and promotes the development of quality security products, policies & services
- FIRST develops and promulgates best computer security practices
- FIRST promotes the creation and expansion of Incident Response teams and membership from organisations from around the world
- FIRST members use their combined knowledge, skills and experience to promote a safer and more secure global electronic environment.

A.2.3 Organisation

Steering Committee

The Steering Committee is a group of individuals responsible for general operating policy, procedures, and related matters affecting the FIRST as a whole.

Board of Directors

The Board of Directors is a group of individuals responsible for general operating policy, procedures, and related matters affecting the First.Org, Inc., corporation as a whole.

Secretariat

The Secretariat serves as an administrative point for FIRST and provides a general contact for FIRST.

Member Teams

The incident response teams participating in FIRST represent organisations that assist an information technology community or other defined constituency in preventing and handling computer security-related incidents.

Liaisons

Individuals or representatives of organisations other than incident response or security teams that have a legitimate interest in and value to FIRST.

WG & Committees

FIRST Steering Committee establishes standing (permanent) and ad-hoc (temporary) committees in order to better achieve FIRST goals.

A.2.4 History

In November 1988, a computer security incident known as the "Internet worm" brought major portions of the Internet to its knees. Reaction to this incident was isolated and uncoordinated, resulting in much duplicated effort, and in conflicting solutions. Weeks later, the CERT Coordination Centre was formed. Soon after, the United States Department of Energy formed the Computer Incident Advisory Capability (CIAC) to serve its constituents.

Over the next two years, the number of incident response teams continued to grow, each with its own purpose, funding, reporting requirements, and constituency. The interaction between these teams experienced difficulties due to differences in language, time zone, and international standards or conventions. In October 1989, a major incident called the "Wank worm" highlighted the need for better communication and coordination between teams.

The FIRST was formed in 1990 in response to this problem. Since that time, it has continued to grow and evolve in response to the changing needs of the incident response and security teams and their constituencies.

By 2002, the Internet had grown from 60,000 host computer systems to 150 million in nearly all countries in the world (see Internet Domain Survey at the Internet Software Consortium). Many companies now rely on the Internet in their daily business transactions. Incident response and security teams continue to form around the globe, covering a range of constituencies from whole countries, to multi-national organisations. The FIRST membership consists of teams from a wide variety of organisations including educational, commercial, vendor, government and military.

8. Annex B: Version History

v1.0: (12/2005) Initial release as ENISA deliverable for 2005

v1.1: (12/2005) First review; eliminated some errors (map updated to v1.1)

v1.2: (02/2006) Added/deleted some teams; design of the online version (map updated to v1.2)

v1.3: (10/2006) (map updated to v1.3):

- Changed TI-Status and URL of Cert-IST (France)
- Changed TI-Status, URL and FIRST membership of CERT-Hungary (Hungary)
- Changed the URL of GovCERT.IT (Italy)
- Added team and text about CERT Estonia (Estonia)
- Added team and text about Ulak-CSIRT (Turkey)
- Updated text about E-Coat (CERT co-operation activities and projects in Europe)
- Updated text about TF-CSIRT (CERT co-operation activities and projects in Europe)
- Updated text about SIRIOS (CERT supporting activities and projects)
- Added text about NCIRC NATO Cyber Defence Workshops (International cooperation)
- Added SWITCH CERT as a new member in EGC
- Updated team name Ericsson PSIRT (Formerly ETSIRT), TI-Status, TI-URL, and Constituency
- Updated TI-Status, URL and Constituency of NorCERT
- Added team and text about LATNET CERT (Latvia)
- Added team and text about CERT-RRT (Lithuania)
- Updated team name RBSG-ISIRT (UK, from RBSG), TI-Status, TI-URL, and Constituency
- Added team and text about BP DSAC (UK)
- Added team and text about SAP CERT (Germany)

v1.4: (12/2006) Inventory and map updated to v1.4:

- Updated text about SIRIOS (CERT supporting activities and projects)
- Added Dutch national cooperation (o-IRT-o) (CERT co-operation activities and projects in Europe)
- Removed team CERT-AM(11) (Italy) as this group is now considered the constituency of GovCERT.it
- Removed team MBDA SMT (Italy) due to the lack of publicly available contact information
- Removed team OPS-Security (Italy) as it was absorbed by Telecom Italia (S2OC)
- Updated constituency information for GovCERT.it (Italy) to include CERT-AM(21)
- Updated the URL of CERT ENEL (Italy)
- Updated the URL of CERT-RAFVG (Italy)
- Updated the URL of S2OC (Italy)
- Updated the URL and team name of SOC-IDS-CEI (Italy) to SICEI-CERT
- Updated team name of Abuse TP S. A. (Poland) to TP CERT (<http://www.tp.pl/cert>)
- Added IRT symbol on the map next to the teams that take use of the RIPE IRT Object

v1.5: (09/2007) Inventory and map updated to v1.5:

- Added team and text about CSIRT.FEUP (Portugal)
- Added team and text about CCN-CERT (Spain)
- Added team and text about INTECO CERT (Spain)
- Added team and text about DDIRV (Latvia)
- Added team and text about DCSIRT (UK)
- Added team and text about GovCertUK (UK)
- Changed NorCERT (Norway) to TI status "Accredited"

- Changed Ulak-CSIRT (Turkey) to TI status “Accredited”
- Changed team name of JANET-CERT (UK) to JANET CSIRT
- Changed team name of BT SBS (UK) to BTGS
- Changed team name of UNIRAS (UK) to CPNI and updated the text
- Changed the URL of EGC (European Government CERT Group)
- Removed PERMALAN (no longer listed on FIRST)
- Removed mCERT (has ceased to exist)

v1.6: (05/2008) Inventory and map updated to v1.6:

- Removed BTGS (UK), no longer operational according to TI
- Removed CSRRT-LU (Luxembourg), seems no longer operational
- Moved SKY-CERT (UK) to SKY-CERT (Estonia) based on TI listing change
- Changed team name of CERT Estonia (Estonia) to CERT-EE based on TI listing
- Changed team name of LATNET CERT (Latvia) to CERT NIC.LV and updated the text
- Added team and text about CERT GOV PL (Poland) www.cert.gov.pl
- Added team and text about CERT.AT (Austria) www.cert.at
- Added team and text about RESTENA-CSIRT (Luxembourg) www.restena.lu/csirt/
- Added team and text about CERT-IPN (Portugal) www.cert.ipn.pt
- Added team and text about e-LC CSIRT (Spain) based on FIRST database
- Added team and text about ING Global CSIRT (Netherlands) based on TI listing and FIRST database
- Added team and text about UIO-CERT (Norway) based on TI listing
- Fixed URLs of CERT-Difesa and CERT-RAFGV (Italy)
- Added TI status and Link to GovCertUK (UK)
- Added Latvian national cooperation (LV CERT) (CERT co-operation activities and projects in Europe)

v1.7: (10/2008) Inventory and map updated to v1.7:

- Re-inserted team CSRRT-LU (Luxembourg) based on Luxembourg National Liaison Officer feedback
- Added team and text about CIRCL (Luxembourg) based on Luxembourg National Liaison Officer input and TI listing
- Added team and text about FORTH CERT (Greece) based on direct input and TI listing
- Added team and text about CSIRT.CZ (Czech Republic) based on direct input and TI listing
- Added team and text about CZNIC-CSIRT (Czech Republic) based on TI listing
- Added team and text about RoCSIRT (Romania) based on TI listing
- Added team and text about CSIRTCV (Spain) based on direct input from Spanish officials and TI listing
- Changed team name of CPNI (UK) to CSIRTUK based on TI database update
- Changed team name and text of Micro-BIT (Germany) to BFK based on DFN-CERT input and FIRST database
- Changed team name and text of CERT-RRT (Lithuania) to CERT-LT (www.cert.lt) based on the input from the Lithuanian National Liaison Officer
- Updated team information of CERT-IPN (Portugal) based on direct input and TI listing
- Updated following teams to “TI accredited”: CERT-EE, CERT NIC.LV, TR-CERT, Ulak-CSIRT, INTECO-CERT

v1.8: (05/2009) Inventory and map updated to v1.8:

- Changed team info: **RESTENA-CSIRT** (Luxembourg) has finished the accreditation process successfully
- Added team and text about **IRISS CERT** (Ireland) based on TI listing
- Added team and text about **CERT ZSIS** (Croatia) based on TI listing
- Added team and text about **CERT Bulgaria** (Bulgaria) based on TI listing
- Added team and text about **Jumper CSIRT** (Ireland) based on TI listing
- Added team and text about **POPCAP-CSIRT** (Ireland) based on TI listing
- Added team and text about **CERT-LT** (Lithuania) based on TI listing
- Changed text of RM CSIRT (UK) the whole name in breakages and added URL
- Updated the TI URL& web URL of Cisco PSIRT (UK)
- Updated the TI URL of BTCERT CC (UK)

- Updated the TI URL of CERT PT (Portugal)
- Updated the TI URL of Uninett CERT (Norway)
- Added the FIRST URL of AAB-GCIRCT (Netherlands)
- Updated the web URL of OxCERT (UK)
- Changed team name of SURFnet-CERT (Netherlands) to SURFCERT based on TI database update
- Updated the web URL of CERT Renater (France)
- Added the FIRST URL of FSC-CERT (Germany)
- Updated the URL of GNS-CERT (Germany)
- Added the FIRST URL of BFK (Germany)
- Updated the web URL of PRE-CERT(Germany)
- Changed team info: FORTH CERT (Greece) has finished the accreditation process successfully
- Added the web URL of RoCSIRT (Romania)
- Added the web URL of esCERT-UPC (Spain)
- Updated the TI URL of GOVCERT.NL (Netherlands)
- Updated the URL of SURFnet CERT (Netherlands)
- Activated the web URL of Ulak-CSIRT (Turkey)
- Deleted the web URL of BT CERT CC (United Kingdom)
- Updated the web URL of JANET-CSIRT (United Kingdom)
- Changed country name from The Netherlands to Netherlands (The)
- Changed location of NCIRC CC (Belgium) to “International”
- Changed team info to accredited: DDIRV (Latvia)
- Changed team info to accredited: CERT-LT (Lithuania) , added TI URL
- Changed team info to accredited: RBSG-ISIRT (UK)
- Updated the web URL of HEANET (Ireland)
- Added the TI URL of RESTENA (Luxembourg)

v1.9: (11/2009) Inventory and map updated to v1.9:

- Added team and text about **IST-SVDPT** (Lithuania) based on TI listing
- Added team and text about **KIT-CERT** (Germany) based on TI listing
- Added team and text about CERT.BE (Belgium) based on TI listing
- Added team and text about **SIST** (Sweden) based on TI listing
- Added team and text about R-IT-CERT (Austria) based on TI listing
- Added team and text about CERT-Société Générale (France) based on TI listing
- Added team and text about HR-CERT (Croatia) based on TI listing
- Added team and text about EGEE OSCT (International) based on TI listing
- Added team and text about CSIRT-MU (Czech Republic) based on TI listing
- Added team and text about CERT-UA (Ukraine) based on TI listing
- Added team and text about CERT AzEduNET (Azerbaijan) based on TI listing
- Added team and text about CERT-GE (Georgia) based on TI listing
- Deleted team and text about T-COM-CERT (Germany) based on received info
- Added team and text about GOVCERT (Austria) based on Austria’s request
- Added team and text about SWAT (Denmark) based on FIRST membership
- Added team and text about SECUNIA (Denmark) based on FIRST membership
- Added team and text about FSLabs (Finland) based on FIRST membership
- Added team and text about ISIRT (France) based on FIRST membership
- Added team and text about RABOBANK (Netherlands) based on FIRST membership
- Added team and text about IRT-Edutel-CSIRT (Netherlands) based on IRT entry/request
- Changed team info to accredited: FORTH CERT (Greece)
- Updated the web URL of HEANET CERT (Ireland)
- Changed constituency info: IRIS-CERT (Spain)
- All URLs updated (TI, FIRST)

- All constituency descriptions change to “sector” description
- Added team and text about APOGEE SecWatch (France) based on TI listing

V2.0: (06/2010) Inventory and map updated to v2.0:

- Changed status about **KIT-CERT** (Germany) based on TI listing
- Added team and text about Edutel-CSIRT (Netherlands) based on TI listing
- Added team and text about CSIRT BNP Paribas (France) based on TI listing
- Changed status about HR-CERT (Croatia) based on TI listing
- Changed status about CERT.BE (Belgium) based on TI listing
- Added team and text about Swedbank SIRT (Sweden) based on TI listing
- Changed status about IRISS CERT (Ireland) based on TI listing
- Changed information about CSIRT-MU (Czech Republic) based on TI listing
- Changed information about UiO CERT (Norway) based on TI listing
- Changed information about INTECO-CERT (Spain) based on TI listing
- Changed information about NorCERT (Norway) based on TI listing
- Changed information about R-IT CERT (Austria) based on TI listing
- Changed location about ESACERT (Worldwide) based on TI listing
- Added text about CERT NIC.LV (Latvia) based on TI listing
- Changed information about CSIRT-MU (Czech Republic) based on TI listing
- Changed information about CERT.AT (Austria) based on TI listing
- Changed information about HR-CERT(Croatia) based on TI listing
- Changed information about CERT.BE (Belgium) based on TI listing
- Added team and text about Swedbank SIRT (Sweden) based on TI listing
- Added team and text about IBM ERS (International) based on TI listing
- Added team and text about SunCERT (International) based on TI listing
- Changed information about CISCO PSIRT (International) based on TI listing

V2.1: (11/2010) Inventory and map updated to v2.1:

- Removed broken links
- Added S21sec CERT (Spain) based on TI listing
- Added CESICAT-CERT (Spain) based on TI listing
- Added CERT-XMCO (France) based on TI listing
- Added ESISS (UK) based on TI listing
- Added CSIRT.SK (Slovakia) based on TI listing
- Added GovCERT.dk (Denmark) based on TI listing
- Added MD-CERT (Moldova) based on TI listing
- Added Team Cymru based on TI listing
- Updated name of CERT-DVT (formerly APOGEE SecWatch), TI-URL, URL based on TI listing
- Updated name, constituency, TI Link and TI Status information of CZ.NIC-CSIRT (Czech Republic) based on TI listing
- Updated TI Link and TI Status of CSIRTUK (UK) based on TI listing
- Updated link to DDIRV (Latvia)
- Added information about former name of CERT NIC.LV (Latvia)
- Changed the name of LV CERT initiative to LV CSIRT and updated the link
- Added Latvia, Lithuania to the other locations of TS-CERT (Sweden) based on TI listing
- Updated TI Link for KIT-CERT (Germany) based on TI listing
- Updated TI Status of CSIRT-MU (Czech Republic) based on TI listing
- Updated TI Link of HR-CERT (Croatia) based on TI listing
- Updated link to CSIRT.CZ (Czech Republic) based on TI listing
- Updated TI Link, TI Status and FIRST membership information of Nokia NIRT (Finland)
- Added link and constituency information to CERT-Société Générale (France) based on TI listing
- Added link to Siemens-CERT (Germany) based on TI listing

- Updated link to BP DSAC (UK)
- Changed TI Status of Cisco PSIRT based on TI listing
- Updated link to Jumper CSIRT (Ireland)
- Corrected URL of IRIS-CERT (Spain) based on TI listing
- Updated TI Link of CERT.be (Belgium) based on TI listing

V2.2: (1/2011) Inventory and map updated to v2.2:

- Updated the name of CERT-SE (formerly SITIC) (Sweden)
- Updated information of CZIRT.CZ (Czech Republic)
- Updated information on CERTs in Cyprus
- Added description of TI status “Accredited and Certified”
- Updated TI status of GOVCERT.NL (Netherlands) based on TI listing
- Updated information of IRISS CERT (Ireland) based on TI listing
- Added AZ-CERT (Azerbaijan) based on TI listing
- Updated TI status of CERT-GE (Georgia) based on TI listing

V2.3 (2/2011) Inventory and map updated to v2.3:

- Updated name and information of CERT.LV (Latvia) (formerly CERT NIC.LV)
- Deleted DDIRV (Latvia) due to its merger with CERT.LV
- Updated status of AZ-CERT (Azerbaijan) based on TI listing
- Updated information on CESICAT-CERT (Spain)
- Added CORIS-STIS (Romania) based on TI listing
- Updated status of CERT-DVT (France) based on TI listing

V2.4 (3/2011) Inventory updated to v2.4:

- Updated information about CERT.LV (Latvia)
- Updated information about CIRCL (Luxembourg)
- Updated information about CERT-DEVOTEAM (France)
- Updated TI link of CERT-SE (Sweden)
- Updated information about CERT-MU (Czech Republic) based on TI listing
- Updated TI status of CSIRT.SK (Slovakia) based on TI listing

V2.5 (6/2011) Inventory updated to v2.5:

- Updated information on CORIS-STIS (Romania) based on TI listing
- Updated information on CERT-LEXSI (France) based on TI listing
- Updated information on CSIRT.SK (Slovakia) based on TI listing
- Updated information on CERT-GE (Georgia) based on TI listing
- Added AMRES-CSIRT (Serbia) based on TI listing
- Added ETHZ-NSG (Switzerland) based on TI listing
- Updated information on DAN-CERT (UK) based on TI listing
- Updated information on CSIRT-MU (Czech Republic) based on TI listing
- Updated information on SI-CERT (Slovenia) based on TI listing
- Updated information on AZ-CERT (Azerbaijan) based on TI listing
- Updated information on CIRCL (Luxembourg) based on TI listing
- Updated information on ESISS (UK) based on TI listing
- Updated information on SWITCH-CERT (Switzerland) based on TI listing
- Updated information on S21sec CERT (Spain)
- Updated information on CERT.PT (Portugal)
- Updated information on CERT-UA (Ukraine)
- Added csirtPT (Portugal) based on TI listing

- Added MAPFRE-CCG-CERT (Spain) based on TI listing

V2.6 (11/2011) Inventory updated to v2.6:

- Added Cisco CSIRT (World Wide) based on TI listing
- Updated information on EGE OSCT based on TI listing
- Added CERT-EU (European Union) based on TI listing
- Added CERT AM (CERT Armenia) based on TI listing
- Updated information on CSIRT.CZ (Czech Republic)
- Updated information on Danish GovCERT (Denmark)
- Added CERT-GOV-GE (Georgia) based on TI listing
- Added NCERT-GR (Greece) based on TI listing
- Updated information on CIRCL(Luxembourg)
- Updated information on CERT.GOV.PL (Poland)
- Added DGS-IRT (Spain) based on TI listing
- Added CERT-RO (Romania) based on TI listing
- Updated information on CSIRTCV (Spain)
- Updated information on S21sec CERT (Spain)
- Added Handelsbanken SIRT (Sweden) based on TI listing
- Updated information on CERT-SE (Sweden)
- Updated information on Swedbank SIRT (Sweden)
- Added WAR-CSIIRT (United Kingdom) based on TI listing
- Updated information on DCSIRT (United Kingdom)
- Updated information on ESISS (United Kingdom)

V2.7 (06/2012) Inventory updated to v2.7:

- Updated information on Cisco CSIRT (Worldwide)
- Added team ICANN CIRC (Worldwide) based on TI listing
- Updated information on R-IT CERT (Austria)
- Updated information on CERT Bulgaria (Bulgaria)
- Updated information on CARNet CERT (Croatia)
- Updated information on CERT ZSIS (Croatia)
- Updated information on HR-CERT (Croatia)
- Added team ACTIVE24-CSIRT (Czech Republic) based on TI listing
- Updated information on CESNET-CERTS (Czech Republic)
- Updated information on CSIRT.CZ (Czech Republic)
- Updated information on Danish GovCERT (Denmark)
- Updated information on CERT-EE (Estonia)
- Removed team SKY-CERT (Estonia) due to the lack of publicly available contact information
- Removed team FSLabs (Finland) due to the lack of publicly available contact information
- Updated information on Nokia NIRT (Finland)
- Updated information on CERT-DVT (France)
- Updated information on Cert-IST (France)
- Updated information on CERT-LEXI (France)
- Added team CERT LA POSTE (France) based on TI listing
- Added team Orange-CERT-CC (France) based on TI listing
- Updated information on CERT-GOV-GE (Georgia)
- Updated information on CERT-GE (Georgia)
- Updated information on CERT-BUND (Germany)
- Updated information on CERT-VW (Germany)
- Updated information on ComCERT (Germany)
- Updated information on dCERT (Germany)
- Updated information on FTS-CERT (Germany)
- Updated information on GNS-CERT (Germany)
- Updated information on PRE-CERT (Germany)

- Updated information on SAP CERT (Germany)
- Updated information on SECU-CERT (Germany)
- Updated information on FORTH CERT (Greece)
- Updated information on CERT-Hungary (Hungary)
- Updated information on HEANET-CERT (Ireland)
- Updated information on IRISS CERT (Ireland)
- Updated information on Jumper CSIRT (Ireland)
- Updated information on GOVCERT.IT (Italy)
- Updated information on CERT.LV (Latvia)
- Updated information on LITNET CERT (Lithuania)
- Updated information on CIRCL (Luxembourg)
- Updated information on CSRRT-LU (Luxembourg)
- Updated information on RESTENA-CSIRT (Luxembourg)
- Updated information on AAB GCIRT (Netherlands)
- Updated information on CERT-RUG (Netherlands)
- Removed GOVCERT.NL from the list due to the formation of NCSC-NL (Netherlands)
- Updated information on KPN-CERT (Netherlands)
- Added team NCSC-NL (Netherlands) based on TI listing
- Updated information on RABOBANK SOC (Netherlands)
- Updated information on SURFcert (Netherlands)
- Added team NORDUnet CERT (Norway) based on TI listing
- Updated information on DGS-IRT (Portugal)
- Updated information on csirtPT (Portugal)
- Updated information on CERT-RO (Romania)
- Updated information on CORIS-STIS (Romania)
- Updated information on RoCSIRT (Romania)
- Added team CERT-GIB (Russia) based on TI listing
- Updated information on WebPlus ISP (Russia)
- Updated information on CESICAT-CERT (Spain)
- Updated information on S21sec CERT (Spain)
- Updated information on Handelsbanken SIRT (Sweden)
- Updated information on Swedbank SIRT (Sweden)
- Updated information on TS-CERT (Sweden)
- Updated information on CERN CERT (Switzerland)
- Updated information on ETHZ-NSG (Switzerland)
- Updated information on OS-CIRT (Switzerland)
- Updated information on Ulak-CSIRT (Turkey)
- Updated information on WAR-CSIRT (United Kingdom)
- Removed team BP DSAC (United Kingdom) from the list due to the lack of publicly available contact information
- Updated information on DAN-CERT (United Kingdom)
- Updated information on DCSIRT (United Kingdom)
- Updated information on ESISS (United Kingdom)
- Updated information on Q-CIRT (United Kingdom)
- Removed team RM CSIRT (United Kingdom) from the list due to the lack of publicly available contact information

V2.8 (08/2012) Inventory updated to v2.8:

- Lay-out change: CERT teams are now displayed in tables
- Moved team NORDUnet CERT from Norway to International (actual location is Denmark, though it is an international initiative)
- Added team CERT.GOV.AZ (Azerbaijan) based on TI and FIRST listings
- Updated information on CERT.BE (Belgium)
- Removed team BELNET CERT (Belgium) due to its merge with CERT.BE
- Updated information on CERT-GOV-GE (Georgia)
- Updated information on Deutsche Telekom CERT (Germany)
- Added team CERT BWi (Germany) based on FIRST listing
- Added team gCERT (Germany) based on FIRST listing
- Added team Vodafone-CERT (Germany) based on FIRST listing

- Added team dbCERT (Germany) based on FIRST listing
- Removed team GovCERT.IT (Italy)
- Removed team GovCERT (Cyprus)
- Added team LTU MOD CIRT (Lithuania) based on FIRST listing
- Added team GOVCERT.LU (Luxembourg) based on TI listing
- Added team DefCERT (The Netherlands) based on FIRST listing
- Updated information on CERT-KUN (The Netherlands) due to its name change to CERT-RU
- Added team DnB IRT (Norway) based on FIRST listing
- Added team TELENOR (Norway) based on FIRST listing
- Added team Statoil CSIRT (Norway) based on FIRST listing
- Changed “Russia” to “Russian Federation”
- Added team TBSecurity-CERT (Spain) based on FIRST listing
- Added team Telefonica-CSIRT (Spain) based on FIRST listing
- Added team LiU IRT (Sweden) based on TI listing
- Added team GovCERT.ch (Switzerland) based on FIRST listing
- Added team Bunker (United Kingdom) based on FIRST listing
- Added team ISPIRIT (United Kingdom) based on FIRST listing
- Added team NGRID-CSIRT (United Kingdom) based on FIRST listing
- Added team P-CIRF (United Kingdom) based on FIRST listing
- Added team CERTGOVIL (Israel) based on FIRST listing
- Added team IUCC – InterUniversity Computation Center (Israel) based on FIRST listing

V2.9 (11/2012) Inventory updated to v2.9:

- Added team F-Secure Security Response
- Updated information on LiU IRT based on TI listing
- Updated information on TP CERT based on TI listing
- Updated information on ILAN-CERT based on FIRST listing
- Updated information on UPCC Abusedesk based on TI listing
- Updated information on AMC-CERT
- Updated information on CERT-IDC
- Updated information on CERT-UU
- Updated information on UvA-CERT
- Updated information on ETHZ-NSG
- Updated information on CSIRTCV based on TI listing
- Updated information on EGI CSIRT based on TI listing
- Updated information on CERT-Société Générale based on FIRST listing
- Updated information on CERT ZSIS based on TI listing
- Updated information on CSIRT.CZ
- Updated information on SWAT based on FIRST listing
- Updated information on Orange-CERT-CC based on FIRST listing
- Updated information on CERTBw based on FIRST listing
- Updated information on dbCERT based on FIRST listing
- Updated information on Cisco CSIRT based on TI listing
- Updated information on NCIRC CC based on TI listing
- Updated information on SunCERT based on TI listing
- Updated information on ISPIRIT based on FIRST listing
- Added team Commission CERT
- Updated information on GovCERT based on TI listing
- Updated information on CERT.GOV.AZ based on TI listing
- Updated information on CERT ZSIS based on TI listing
- Updated information on CERT-GE based on TI listing
- Updated information on CERT-BUND based on TI listing

- Updated information on CERTBw based on TI listing
- Updated information on DFN-CERT based on TI listing
- Updated information on FORTHcert based on TI listing
- Updated information on CERT-IT based on TI listing
- Updated information on CERT-LT based on TI listing
- Updated information on IST-SVDPT based on TI listing
- Updated information on CERT-IDC based on TI listing
- Updated information on TP-CERT based on FIRST listing
- Updated information on CSIRTCV based on TI listing
- Updated information on MAPFRE-CCG-CERT based on TI listing
- Added team Andalucia CERT
- Updated information on GovCERT.CH based on TI listing
- Updated information on RBSG-ISIRT based on TI listing

V2.10 (06/2013) Inventory updated to v2.10:

- Added team Belgacom CSIRT (Belgium) based on TI listing
- Added team CSIRT-ECB based on TI listing
- Added team COSDEF-CERT (Spain) based on TI listing
- Added team UCL CERT (United Kingdom) based on TI listing
- Added team CIRT.ME (Montenegro) based on TI listing
- Added team WienCERT (Austria) based on TI listing
- Added team ALCIRT (Albania) based on TI listing
- Added team ISIRT (International) based on TI listing
- Added team GSC Network Defence Capability (EU Institutions)
- Added team GOVCERT.CZ (Czech Republic)
- Updated information on BASF gCERT (Germany) based on FIRST Listing
- Added team CIS-CERT (United Kingdom) based on FIRST Listing
- Added team Shell SecOps (International) based on FIRST Listing
- Updated information on CERT-EU (European Institutions)
- Updated information on SVDPT-CERT (Lithuania)
- Updated information on TR-CERT (Turkey)
- Updated information on DKCERT (Denmark)

V2.11 (06/2013) Inventory updated to v2.11:

- Added team CERT RLP (Germany)
- Added team CERT Poste Italiane (Italia)

V2.12 (12/2013) Inventory updated to v2.12:

- Updated team ISPIRIT (International) based on TI listing
- Removed team Jumper CSIRT (Ireland)
- Updated team KPMG-CSIRT (UK) based on TI listing
- Updated team LTU MOD CERT (Lithuania) based on TI listing
- Added team Malware.lu CERT (Luxemburg) based on TI listing
- Updated team PI-CERT (Italy) based on TI listing
- Added team Panasonic CSIRT (International) based on TI listing
- Updated team Rabobank SOC (NL) based on TI listing
- Added team SEZNAM.CZ-CSIRT (Czech Republic) based on TI listing
- Updated team Secunia Research (Denmark) based on TI listing
- Added team TK CERT (Germany) based on TI listing
- Updated team TR-CERT (Turkey) based on TI listing
- Updated team Telefonica CSIRT (Spain) based on TI listing
- Updated team Vodafone-CERT (Germany) based on TI listing
- Added team XING (Germany) based on TI listing

- Updated team e-LC CSIRT (Spain) based on TI listing
- Updated team mtCERT (Malta) based on TI listing
- Added team information GSC-NDC-OC (Belgium) based on TI listing
- Updated team information GOVCERT.CZ (Czech Republic) based on TI listing
- Updated team information SEZNAM.CZ-CSIRT (Czech Republic) based on TI listing
- Added team information CERT NRW (Germany) based on TI listing
- Updated team information BASF gCERT (Germany) based on TI listing
- Added team information CESCA-CSIRT (Spain) based on TI listing
- Added team information CERT-SLC (France) based on TI listing
- Updated team information CERTGOVIL (Israel) based on TI listing
- Added team information FoxCERT (Netherlands) based on TI listing
- Updated team information AAB GCIRT (Netherlands) based on TI listing
- Updated team information DefCERT (Netherlands) based on TI listing
- Added team information CyberSOC-CERT (Spain)

V2.13 (06/2014) Inventory updated to v2.13:

- Added team information BF-SIRT (Sweden) based on TI listing
- Added team information Incita Security CERT (Spain) based on TI listing
- Added team information FMCERT (Sweden) based on TI listing
- Added team information Healthnet (Luxemburg) based on TI listing
- Added team information Casablanca.CZ CSIRT (Czech Republic) based on TI listing
- Added team information Evonik CERT (Germany) based on TI listing
- Added team information BVCERT (Switzerland) based on TI listing
- Added team information CERT-XLM (Luxemburg) based on TI listing
- Added team information IBD (The Netherlands) based on TI listing
- Added team information CSIRT-VUT (Czech Republic) based on TI listing
- Added team information CERT Credit Agricole (France) based on TI listing
- Added team information 2S-CSIRT (Sweden) based on TI listing
- Added team information CSC Az (Azerbaijan) based on TI listing
- Removed team information GNS-CERT (Germany) based on TI listing
- Updated team CIRCL (Luxemburg) based on TI listing
- Updated team RoCSIRT (Romania) based on TI listing
- Updated team NCSC-FI (Finland) based on TI listing
- Updated team S2OC based on team request
- Added team information CERT Nazionale Italia (Italy) based on Official communication

V2.14 (12/2014) Inventory updated to v2.14:

- Added team NRD-CIRT (Lithuania) based on TI listing
- Updated team CERT SLC (France) based on TI listing
- Added team CDT-CERT (Czech Republic) based on TI listing
- Added team Civil Society CERT (International) based on TI listing
- Updated team CIS-CERT (United Kingdom) based on TI listing
- Updated team GOVCERT.CZ (Czech Republic) based on TI listing
- Updated team GOVCERT.CH (Switzerland) based on TI listing
- Added team EDF-CIRC (Estonia) based on TI listing
- Updated team CERT-RO @(Romania) based on TI listing
- Added team 2CCSIRT (Czech Republic) based on TI listing
- Added team Coolhousing CSIRT (Czech Republic) based on TI listing
- Added team DBG-CERT (Luxemburg) based on TI listing
- Updated team FoxCERT (The Netherlands) based on TI listing
- Updated team EGI CSIRT (International) based on TI listing
- Added team UTI CERT (Romania) based on TI listing
- Added team CERT-BDF (France) based on TI listing
- Added team RIPE NCC CSIRT (International) based on TI listing
- Added team SEBET (Czech Republic) based on TI listing

- Added team CSOB-Group-CSIRT (Czech Republic) based on TI listing
- Updated team KMD IAC (Denmark) based on TI listing
- Updated team LiU IRT (Sweden) based on TI listing
- Added team CERT Orange Polska (Poland) based on TI listing
- Added team CSIRT-BULL (France) based on TI listing
- Updated team TR-CERT based on TI listing
- Added team CERT Pubblica Amministrazione (Italy) based on official communication
- Added team CSIRT Malta (Malta) based on official communication

V2.15 (07/2015) Inventory updated to v2.15:

- Added teams based on TI listing:
 - ALEF-CSIRT (Czech Republic)
 - ComCERT.PL (Poland)
 - UU-CSIRT (Sweden)
 - GEANT CERT (United Kingdom)
 - CERT SEKOIA (France)
 - AiG CERT (EU)
 - AlliaCERT (France)
 - ALEF-CSIRT (Czech Republic)
 - STI CERT (Romania)
 - BGA-CSIRT (Turkey)
 - CSIRT Merit (Czech Republic)
 - KAORA-CSIRT (Czech Republic)
 - SignalSEC Research (Turkey)
 - PXS-CSIRT (Belgium)
 - O2.cz CERT (Czech Republic)
 - CERTSI (Spain)
- Added teams based on FIRST listing:
 - FinansCERT (Norway)
 - HelseCSIRT (Norway)
 - Swisscom CSIRT (Switzerland)
- Removed or renamed:
 - SunCERT (International)
 - CERT ENEL (Italy)
 - DAN-CERT (United Kingdom)
 - CARNet CERT (Croatia)
 - CERT-IT (Italy)
 - TBSecurity-CERT (Spain)
 - Deutsche Telekom-CERT (Germany)
 - cert enel (Italy)
 - cert-it (Italy)
- Other changes
 - CIRCA (National Austrian early warning system) merged into CERT.AT
 - Collaboration between GN2 JRA2 and TF-CSIRT (<http://www.terena.nl/tech/task-forces/tf-csirt/gn2-jra2.html>) from 2005, removed
 - LV CSIRT merged into CERT.LV
 - UKCERTs forum removed, does not exist.
 - Added 10th ENISA Workshop (May 2015, Riga)
 - AIRT - Application for Incident Response Teams (<http://www.airt.nl>) no development since 2009, removed.
 - The RIPE IRT object (<http://www.terena.nl/tech/task-forces/tf-csirt/irt.html>) obsolete, removed.

V2.16 (09/2015) Inventory updated to v2.16:

- Added teams by request
 - CSIS.DK (Denmark)



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